THE ASTROPHYSICAL JOURNAL

AUTHOR INDEX

PARTS 1 & 2, VOLUMES 441 –443

1995 MARCH 1 TO APRIL 20

AANNESTAD, PER A. Ultraviolet Extinction to 10.8 Inverse Microns. *Per A. Aannestad.* 443, 653, 106-G11 (1995)

AARSETH, S. J. On the Tidal Disruption of Dwarf Spheroidal Galaxies around the Galaxy. *K. S. Oh, D. N. C. Lin, & S. J. Aarseth.* 442, 142, 79-B9 (1995)

ABRAMOWICZ, MAREK A. Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

AKESON, RACHEL L. CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

ALBRIGHT, GEARY E. The Transient Accretion Disk in the Algol-Type Binary U Sagittae. *Geary E. Albright & Mercedes T. Richards.* 441, 806, 73-B2 (1995)

ALEXANDER, DAVID R. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

ALIMI, J.-M. Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

AMSTERDAMSKI, PIOTR. Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

ANANTHARAMAIAH, K. R. High Rydberg State Carbon Recombination Lines toward Cassiopeia A: 332 MHz VLA Observations and Comparison with H I and Molecular Lines: Erratum. *K. R. Anantharamaiah, W. C. Erickson, H. E. Payne, & Nimisha G. Kantharia.* 442, 911, 92-G1 (1995) (Orig. paper in 430, 682, 170-C11 (1994))

ANDERSEN, J. The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

ANDERSON, M. C. The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

ANDERSSON, B-G. The Magnetic Field in Lynds 1457: Multiband Photopolarimetry. *B-G Andersson & Peter G. Wannier.* 443, L49, 103-B2 (1995)

ANDRULIS, CATHERINE. The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

ANGLADA, G. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

ANN, HONG BAE. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

ANTIA, H. M. Helioseismic Bounds on the Central Temperature of the Sun. *H. M. Antia & S. M. Chitre.* 442, 434, 83-A2 (1995)

ANTIOCHOS, S. K. Asymptotic Analysis of Force-free Magnetic Fields of Cylindrical Symmetry. *P. A. Sturrock, S. K. Antiochos, & G. Roumeliotis.* 443, 804, 109-A1 (1995)

ARGE, C. N. Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

ARGON, A. L. Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

ARMSTRONG, J. W. Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

ARMUS, L. Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

ARUGA, KAZUO. Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)

ASHMAN, KEITH M. Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

ASPIN, COLIN. A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

AUSTIN, S. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

AVRETT, E. H. The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

AVRETT, EUGENE H. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

AYRES, THOMAS R. The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

A Reanalysis of the SWP-HI *IUE* Observations of Capella. *Brian E. Wood & Thomas R. Ayres.* 443, 329, 99-F7 (1995)

BACHILLER, R. Ammonia Emission from Bow Shocks in the L1157 Outflow. *M. Tafalla & R. Bachiller.* 443, L37, 102-G4 (1995)

BACHMANN, K. T. Measurement of High-Degree Solar Oscillation Frequencies. *K. T. Bachmann, T. L. Duvall, Jr., J. W. Harvey, & F. Hill.* 443, 837, 109-D3 (1995)

BACKER, DONALD C. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

BAGANOFF, F. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

BAHCALL, JOHN N. Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

BAHCALL, NETA A. Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

BAILYN, CHARLES D. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

HST Images of the Eclipsing Pulsar B1957+20. *Andrew S. Fruchter, Jay Bookbinder, & Charles D. Bailyn.* 443, L21, 102-D13 (1995)

BAKES, E. L. O. The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)

BALICK, BRUCE. The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

BALIUNAS, SALLIE L. Magnetic Activity Variations of ϵ Eridani. *David F. Gray & Sallie L. Baliunas.* 441, 436, 65-D4 (1995)

BALLET, J. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

BAO, G. Variability Spectra of Orbiting Blobs around a Black Hole. *G. Bao & E. Østgaard.* 443, 54, 96-A4 (1995)

BARLOW, THOMAS A. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

BARON, E. Non-LTE Spectral Analysis and Model Constraints on SN 1993J. *E. Baron, P. H. Hauschildt, D. Branch, S. Austin, P. Garnavich, Hong Bae Ann, R. M. Wagner, A. V. Filippenko, T. Matheson, & James Liebert.* 441, 170, 61-F8 (1995)

Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

BARSELLA, B. On the Charge Distribution Function of Dust Grains in a Hot Gas. *C. Cervetto, B. Barsella, & A. Ferrara.* 443, 648, 106-G12 (1995)

BASSETT, GENE M. Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

BAUM, S. A. The Megaparsec-Scale Environments of BL Lacertae Objects. *Eric P. Smith, C. P. O'Dea, & S. A. Baum.* 441, 113, 60-G11 (1995)

BAUMGARTE, THOMAS W. Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

BAUTISTA, MANUEL A. Iron to Oxygen Abundance Ratio in the Orion Nebula. *Manuel A. Bautista & Anil K. Pradhan.* 442, L65, 94-F1 (1995)

BEAUCHAMP, A. Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

BEAVER, E. A. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

BECKMAN, J. E. The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

BECKWITH, STEVEN V. W. Infrared Line Emission from High-Redshift Galaxies. I. Calculations. *Filippo Mannucci & Steven V. W. Beckwith.* 442, 569, 87-F8 (1995)

BEDDING, TIMOTHY R. Modeling Solar-like Oscillations in η Bootis. *Jørgen Christensen-Dalsgaard, Timothy R. Bedding, & Hans Kjeldsen.* 443, L29, 102-F1 (1995)

BEIERSDORFER, P. High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

BELLONI, T. X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

BENNETT, C. L. Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Basic Results. *G. Hinshaw, C. L. Bennett, & A. Kogut.* 441, L1, 66-C1 (1995)

Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Unresolved Features. *A. Kogut, G. Hinshaw, & C. L. Bennett.* 441, L5, 66-C10 (1995)

BERGERON, LOUIS E. Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

BERGERON, P. Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

BERGIN, E. A. Gas-Phase Chemistry in Dense Interstellar Clouds Including Grain Surface Molecular Depletion and Desorption. *E. A. Bergin, W. D. Langer, & P. F. Goldsmith.* 441, 222, 62-D7 (1995)

BERNARDEAU, FRANCIS. Properties of the Cosmological Density Distribution Function. *Francis Bernardeau & Lev Kofman.* 443, 479, 104-F1 (1995)

BERTSCH, D. L. On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

BETTENS, R. P. A. The Importance of Classes of Neutral-Neutral Reactions in the Production of Complex Interstellar Molecules. *R. P. A. Bettens, H.-H. Lee, & Eric Herbst.* 443, 664, 107-A12 (1995)

BEUERMANN, K. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

BIRD, D. J. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation. *D. J. Bird, S. C. Corbató, H. Y. Dai, J. W. Elbert, K. D. Green, M. A. Huang, D. B. Kieda, S. Ko, C. G. Larsen, E. C. Loh, M. Z. Luo, M. H. Salamon, J. D. Smith, P. Sokolsky, P. Sommers, J. K. K. Tang, & S. B. Thomas.* 441, 144, 61-C12 (1995)

BJÖRNSSON, GUNNLAUGUR. Optically Thin Accretion Disks in the Kerr Metric. *Gunnlaugur Björnsson.* 441, 765, 72-D12 (1995)

BJORKMAN, J. E. Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

BLAIR, WILLIAM P. *ROSAT* Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

BLAKE, GEOFFREY A. A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

BLAKE, J. B. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

BLAKESLEE, JOHN P. Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

BLANDFORD, R. D. Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

BLESS, R. C. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

BLUM, R. D. A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

BODENHEIMER, PETER. The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

BODO, GIANLUIGI. The Velocity of the Emitting Plasma of the Superluminal Galactic Source GRS 1915+105. *Gianluigi Bodo & Gabriele Ghisellini.* 441, L69, 75-G13 (1995)

BOHLIN, RALPH C. The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

BONNELL, J. T. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

BONO, G. The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

BOOKBINDER, JAY. *HST* Images of the Eclipsing Pulsar B1957+20. *Andrew S. Fruchter, Jay Bookbinder, & Charles D. Bailyn.* 443, L21, 102-D13 (1995)

BOOTHROYD, ARNOLD I. Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

BORGANI, STEFANO. Moments of the Cluster Distribution as a Test of Dark Matter Models. *Manolis Plionis, Stefano Borgani, Lauro Moscardini, & Peter Coles.* 441, L57, 75-F6 (1995)

BORYSOW, ALEKSANDRA. Rototranslational Collision-induced Absorption by H_2–H_2 Pairs at Temperatures from 600 to 7000 K. *Chunguang Zheng & Aleksandra Borysow.* 441, 960, 75-B6 (1995)

BOUCHET, F. R. Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

BOUCHET, FRANÇOIS. Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

BOUCHET, L. See CHURAZOV, E., et al. Detection of the A1742–294 X-Ray Burster above 35 keV.

BOUGHN, STEPHEN P. Excitation of Low-Order Jovian *p*-Modes by Cometary Impacts. *Andrew J. Dombard & Stephen P. Boughn.* 443, L89, 112-B11 (1995)

BOWEN, DAVID V. The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

BOWYER, STUART. Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

BOYD, P. T. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

BRAGAGLIA, ANGELA. Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

BRAINERD, J. J. Time-dependent Clustering Analysis of the Second BATSE Gamma-Ray Burst Catalog. *J. J. Brainerd, C. A. Meegan, Michael S. Briggs, G. N. Pendleton, & M. N. Brock.* 441, L39, 67-B1 (1995)

BRANCH, D. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

BRANCH, DAVID. Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

BREGMAN, JOEL N. The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

ROSAT Observations of Compact Groups of Galaxies. *Rachel A. Pildis, Joel N. Bregman, & August E. Evrard.* 443, 514, 105-A1 (1995)

BRIEL, U. The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

BRIEL, ULRICH G. An X-Ray Temperature Map of Abell 754: A Major Merger. *J. Patrick Henry & Ulrich G. Briel.* 443, L9, 102-C1 (1995)

BRIGGS, M. S. Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

BRIGGS, MICHAEL S. Time-dependent Clustering Analysis of the Second BATSE Gamma-Ray Burst Catalog. *J. J. Brainerd, C. A. Meegan, Michael S. Briggs, G. N. Pendleton, & M. N. Brock.* 441, L39, 67-B1 (1995)

BRINKMANN, W. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

BRIO, M. Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

BROCK, M. N. Time-dependent Clustering Analysis of the Second BATSE Gamma-Ray Burst Catalog. *J. J. Brainerd, C. A. Meegan, Michael S. Briggs, G. N. Pendleton, & M. N. Brock.* 441, L39, 67-B1 (1995)

BROSIUS, JEFFREY W. Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

BROWN, ALEXANDER. The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

BROWN, JOHN M. Atomic Iron in Its ^5D Ground State: A Direct Measurement of the $J = 0 \leftarrow 1$ and $J = 1 \leftarrow 2$ Fine-Structure Intervals. *John M. Brown & Kenneth M. Evenson.* 441, L97, 76-D11 (1995)

BROWN, T. Nightly Variations of Nonradial Oscillations in the Delta Scuti Star υ Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

BRUECKNER, G. E. Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

BRUHWEILER, F. C. The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

BUCKLEY, D. A. H. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

BUNN, EMORY F. The *COBE* Normalization for Standard Cold Dark Matter. *Emory F. Bunn, Douglas Scott, & Martin White.* 441, L9, 66-D4 (1995)

A First Map of the Cosmic Microwave Background at 0.5° Resolution. *Martin White & Emory F. Bunn.* 443, L53, 111-D1 (1995)

BURBIDGE, E. M. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

BURWITZ, V. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

CAILLAULT, JEAN-PIERRE. A Search for Pre–Main-Sequence Stars in High-Latitude Molecular Clouds. III. A Survey of the *Einstein* Database. *Jean-Pierre Caillault, Loris Magnani, & Chris Fryer.* 441, 261, 62-G12 (1995)

CAIMMI, R. The Potential-Energy Tensors for Subsystems. III. Mass Distributions with Ellipsoidal and Confocal Strata. *R. Caimmi.* 441, 533, 69-D3 (1995)

CALIGARI, P. Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

CALLANAN, PAUL J. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence. *Paul J. Callanan, Michael R. Garcia, Jeffrey E. McClintock, Ping Zhao, Ronald A. Remillard, Charles D. Bailyn, Jerome A. Orosz, B. Alan Harmon, & William S. Paciesas.* 441, 786, 72-G3 (1995)

CALZETTI, DANIELA. The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

CANTÓ, J. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

CAPUTO, F. The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

CAROLLO, C. M. Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

CARPENTER, K. G. Mg II *h* and *k* Profiles in High-Luminosity, Late-Type Stars. *R. D. Robinson & K. G. Carpenter.* 442, 328, 81-E12 (1995)

CARPENTER, KENNETH G. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

CASERTANO, STEFANO. A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

CASSAR, L. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

CASSATELLA, A. The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

CASSÉ, MICHEL. Cosmological and Astrophysical Consequences of a High Primordial Deuterium Abundance. *Elisabeth Vangioni-Flam & Michel Cassé.* 441, 471, 68-E4 (1995)

CASTELLANI, V. The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

CATTANEO, F. On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

On the Spatial Distribution of Magnetic Fields on the Solar Surface. *L. Tao, Y. Du, R. Rosner, & F. Cattaneo.* 443, 434, 101-A12 (1995)

CEN, RENYUE. Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

CERVETTO, C. On the Charge Distribution Function of Dust Grains in a Hot Gas. *C. Cervetto, B. Barsella, & A. Ferrara.* 443, 648, 106-G12 (1995)

CHABOYER, BRIAN. Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

CHAKRABARTI, SANDIP K. Velocity Profile of the Ionized Disk and the Mass of the Black Hole in M87. *Sandip K. Chakrabarti.* 441, 576, 70-A6 (1995)

CHANMUGAM, G. Postaccretion Magnetic Field Evolution of Neutron Stars. *E. J. Young & G. Chanmugam.* 442, L53, 94-D3 (1995)

CHEN, JIASHENG. The $^3He/^4He$ Ratios for Solar Energetic Particle Events during the *Combined Release and Radiation Effects Satellite* Mission. *Jiasheng Chen, T. Gregory Guzik, & John P. Wefel.* 442, 875, 92-C1 (1995)

CHEN, JUNFENG. Calculations on the Structure and Corresponding Permitted Spontaneous Transitions for the Low-lying States of Fe^{+24} and Fe^{+25}. *Haiguang Xu, Shiwei Zhang, Junfeng Chen, & Junhan You.* 441, 443, 65-E1 (1995)

CHEN, M. High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

CHEN, W. P. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

CHEN, XINGMING. Variability of Accretion Disks Surrounding Black Holes: The Role of Inertial-Acoustic Mode Instabilities. *Xingming Chen & Ronald E. Taam.* 441, 354, 64-C2 (1995)

Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

CHERNIN, LAWRENCE M. Powerful Jets and Weak Outflows: HH 1–2 and HH 34. *Lawrence M. Chernin & Colin R. Masson.* 443, 181, 97-E11 (1995)

CHIAN, ABRAHAM C.-L. Temporal Variation of Pulsar Dispersion Measure. *Xinji Wu & Abraham C.-L. Chian.* 443, 261, 98-G1 (1995)

CHIBA, MASASHI. A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

CHITRE, S. M. Helioseismic Bounds on the Central Temperature of the Sun. *H. M. Antia & S. M. Chitre.* 442, 434, 83-A2 (1995)

CHODOROWSKI, MICHAŁ. Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

CHRISTENSEN-DALSGAARD, JØRGEN. Modeling Solar-like Oscillations in η Bootis. *Jørgen Christensen-Dalsgaard, Timothy R. Bedding, & Hans Kjeldsen.* 443, L29, 102-F1 (1995)

CHRISTODOULOU, DIMITRIS M. A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

CHUGAI, NIKOLAI N. The Absorption Spectrum of Nuclear Gas in Q0059−2735. *E. Joseph Wampler, Nikolai N. Chugai, & Patrick Petitjean.* 443, 586, 106-A4 (1995)

CHULKOV, I. See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

CHURAZOV, E. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

Detection of the A1742−294 X-Ray Burster above 35 keV. *E. Churazov, M. Gilfanov, R. Sunyaev, B. Novickov, I. Chulkov, V. Kovtunenko, A. Sheikhet, K. Sukhanov, A. Goldwurm, B. Cordier, J. Paul, P. O. Petrucci, E. Jourdain, J. P. Roques, L. Bouchet, & P. Mandrou.* 443, 341, 99-G8 (1995)

CIAPI, A. *ROSAT* Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

CLARET, A. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

CLARKE, DAVID A. The Stability and Collimation of Three-dimensional Jets. *Philip E. Hardee, David A. Clarke, & D. Andrew Howell.* 441, 644, 71-A1 (1995)

CLAUSSEN, MARK J. Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

CLEMENS, J. C. See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

CODE, ARTHUR D. Polarization from Scattering in Blobs. *Arthur D. Code & Barbara A. Whitney.* 441, 400, 64-G4 (1995)

COHEN, J. G. Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

COHEN, MARSHALL H. The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

COHEN, ROSS D. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

COLES, PETER. Moments of the Cluster Distribution as a Test of Dark Matter Models. *Manolis Plionis, Stefano Borgani, Lauro Moscardini, & Peter Coles.* 441, L57, 75-F6 (1995)

COLLISON, ALAN J. A Nonlocal Calculation of Circumstellar OH Maser Emission. *Alan J. Collison & Gerald E. Nedoluha.* 442, 311, 81-D6 (1995)

COMINSKY, LYNN. X-Ray Emission of the Pulsar–Be Star Binary PSR 1259−63: Addendum. *Andrew King & Lynn Cominsky.* 442, 910, 92-F10 (1995) (Orig. paper in 435, 411, 249-B3 (1994))

CONTOPOULOS, JOHN. Relativistic Hadrons and the Origin of Relativistic Outflows in Active Galactic Nuclei. *John Contopoulos & Demosthenes Kazanas.* 441, 521, 69-C2 (1995)

COOK, G. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

CORBATÓ, S. C. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

CORBET, R. H. D. The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

CORDIER, B. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

CRANMER, STEVEN R. Momentum Deposition in Wolf-Rayet Winds: Nonisotropic Diffusion with Effectively Gray Opacity. *Kenneth G. Gayley, Stanley P. Owocki, & Steven R. Cranmer.* 442, 296, 81-C2 (1995)

CRAWFORD, DAVID F. The Quasar Distribution in a Static Universe. *David F. Crawford.* 441, 488, 68-F13 (1995)

CRUTCHER, R. M. The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)

CUDWORTH, KYLE M. Radial Velocities of Stars in the Globular Cluster M4 and the Cluster Distance. *Ruth C. Peterson, Richard F. Rees, & Kyle M. Cudworth.* 443, 124, 96-G11 (1995)

CUNTZ, M. Generation of Mass Loss in K Giants: The Failure of Global Oscillation Modes and Possible Implications. *G. Sutmann & M. Cuntz.* 442, L61, 94-E7 (1995)

DA COSTA, G. S. The Sodium/Aluminum–Oxygen Anticorrelation in ω Centauri and Other Clusters. *John E. Norris & G. S. Da Costa.* 441, L81, 76-B11 (1995)

DAHLEM, MICHAEL. The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

DAI, H. Y. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

D'ALESSIO, P. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

DANZIGER, I. J. Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

DAVIDSON, KRIS. The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

DAVIES, R. D. Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

DAVIS, CHRISTOPHER J. Distinction of Parallel Outflows in L1448 through H_2 Excitation. *Christopher J. Davis & Michael D. Smith.* 443, L41, 102-G14 (1995)

DE ARAUJO, J. C. N. Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

DECAUX, V. High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

DE GEUS, EUGÈNE J. Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

DE GOUVEIA DAL PINO, ELISABETE M. Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

DEICH, W. T. S. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

DE JONG, R. S. The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

DE MARCHI, GUIDO. White Dwarfs and Mass Segregation in the Core of 47 Tucanae. *Francesco Paresce, Guido De Marchi, & Robert Jedrzejewski.* 442, L57, 94-D12 (1995)

DEMARQUE, P. Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

DEMARQUE, PIERRE. Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

DE MARTINO, D. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

DENIS, M. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

DEPOY, D. L. An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

DE PREE, C. G. Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

DERE, K. P. Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

DE SOUZA, CARLOS A. W. Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

DEWDNEY, P. E. H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

DE ZEEUW, P. T. Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

DICKEY, JOHN M. CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

DIGEL, S. W. EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

DINGUS, B. L. On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

DOLAN, J. F. The Gravitational Lens System Q0957+561 in the Ultraviolet. *J. F. Dolan, A. G. Michalitsianos, R. W. Thompson, P. T. Boyd, K. G. Wolinski, R. C. Bless, M. J. Nelson, J. W. Percival, M. J. Taylor, J. L. Elliot, & G. W. van Citters.* 442, 87, 78-D5 (1995)

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

DOLGINOV, A. Z. Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

DOMBARD, ANDREW J. Excitation of Low-Order Jovian p-Modes by Cometary Impacts. *Andrew J. Dombard & Stephen P. Boughn.* 443, L89, 112-B11 (1995)

DORMAN, BEN. Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

DRAKE, JEREMY J. A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

Stellar Coronal Abundances. II. The First Ionization Potential Effect and Its Absence in the Corona of Procyon. *Jeremy J. Drake, J. Martin Laming, & Kenneth G. Widing.* 443, 393, 100-E2 (1995)

Stellar Coronal Abundances. III. The Solar First Ionization Potential Effect Determined from Full-Disk Observation. *J. Martin Laming, Jeremy J. Drake, & Kenneth G. Widing.* 443, 416, 100-G2 (1995)

DRAKE, S. A. Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

DRISSEN, LAURENT. Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

D'SILVA, SYDNEY. Brunt-Väisälä Growth Rate and the Radial Emergence of Equipartition Fields. *Sydney D'Silva.* 443, 444, 101-B11 (1995)

DU, Y. On the Spatial Distribution of Magnetic Fields on the Solar Surface. *L. Tao, Y. Du, R. Rosner, & F. Cattaneo.* 443, 434, 101-A12 (1995)

DUBINSKI, JOHN. The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)

DUFOUR, REGINALD J. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

DULEY, W. W. 3.4 Micron Emission from Ultraviolet Excitation of Alkanes. *G. P. Pinho & W. W. Duley.* 442, L41, 85-C1 (1995)

DUNCAN, R. A. Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

DUNN, A. M. The Least-Action Method, Cold Dark Matter, and Ω. *A. M. Dunn & R. Laflamme.* 443, L1, 102-B1 (1995)

DUVALL, T. L., JR. Measurement of High-Degree Solar Oscillation Frequencies. *K. T. Bachmann, T. L. Duvall, Jr., J. W. Harvey, & F. Hill.* 443, 837, 109-D3 (1995)

DWARAKANATH, K. S. Detection of an H I Disk in Hydra A? *K. S. Dwarakanath, F. N. Owen, & J. H. van Gorkom.* 442, L1, 84-D1 (1995)

DYACHKOV, A. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

DZEGILENKO, FEDOR. A New Desorption Mechanism for Condensed Phase Interstellar CO. *Fedor Dzegilenko & Eric Herbst.* 443, L81, 112-A11 (1995)

EDELSTEIN, J. First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

EFRON, BRADLEY. On the Correlation of Angular Position with Time of Occurrence of Gamma-Ray Bursts. *Vahé Petrosian & Bradley Efron.* 441, L37, 67-A9 (1995)

EFSTATHIOU, G. The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

EGOSHI, WATARU. Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

EISENSTEIN, DANIEL J. Origin of Quasar Progenitors from the Collapse of Low-Spin Cosmological Perturbations. *Daniel J. Eisenstein & Abraham Loeb.* 443, 11, 95-D3 (1995)

ELBERT, J. W. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

ELBERT, JEROME W. In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

ELLIOT, J. L. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

ELLIS, G. F. R. Proving Almost-Homogeneity of the Universe: An Almost Ehlers-Geren-Sachs Theorem. *W. R. Stoeger, R. Maartens, & G. F. R. Ellis.* 443, 1, 95-C1 (1995)

ELVIS, M. The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

ENSMAN, LISA M. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

ERACLEOUS, MICHAEL. The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

ERICKSON, W. C. High Rydberg State Carbon Recombination Lines toward Cassiopeia A: 332 MHz VLA Observations and Comparison with H I and Molecular Lines: Erratum. *K. R. Anantharamaiah, W. C. Erickson, H. E. Payne, & Nimisha G. Kantharia.* 442, 911, 92-G1 (1995) (Orig. paper in 430, 682, 170-C11 (1994))

ERIKSSON, KJELL. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

ESKRIDGE, PAUL B. A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

ESPOSITO, J. A. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

ESTALELLA, R. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

EVENSON, KENNETH M. Atomic Iron in Its ^5D Ground State: A Direct Measurement of the $J = 0 \leftarrow 1$ and $J = 1 \leftarrow 2$ Fine-Structure Intervals. *John M. Brown & Kenneth M. Evenson.* 441, L97, 76-D11 (1995)

EVRARD, AUGUST E. *ROSAT* Observations of Compact Groups of Galaxies. *Rachel A. Pildis, Joel N. Bregman, & August E. Evrard.* 443, 514, 105-A1 (1995)

FABBIANO, G. *ROSAT* PSPC Observations of the Early-Type Galaxies NGC 507 and NGC 499: Central Cooling and Mass Determination. *Dong-Woo Kim & G. Fabbiano.* 441, 182, 61-G10 (1995)

FABBIANO, GIUSEPPINA. A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

FEGLEY, BRUCE, JR. On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

FEIBELMAN, WALTER A. Recent Changes in the *IUE* Spectrum of the Very Young Planetary Nebula He 3-1357 (=SAO 244567). *Walter A. Feibelman.* 443, 245, 98-D13 (1995)

FELDMAN, U. Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

FERLAND, G. J. Collisional Effects in He I: An Observational Analysis. *J. Kingdon & G. J. Ferland.* 442, 714, 90-A8 (1995)

FERLAND, GARY J. Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

FERNÁNDEZ-CASTRO, T. The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

FERRARA, A. On the Charge Distribution Function of Dust Grains in a Hot Gas. *C. Cervetto, B. Barsella, & A. Ferrara.* 443, 648, 106-G12 (1995)

FERRIÈRE, K. M. The Hot Gas Filling Factor in the Vicinity of the Sun. *K. M. Ferrière.* 441, 281, 63-B12 (1995)

FERRINI, FEDERICO. Galactic Evolution of D and ^{3}He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

FICHTEL, C. E. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

FIGUEIREDO, N. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

FILIPPENKO, A. V. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

FILIPPENKO, ALEXEI V. The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

FINK, H. H. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

FINOGUENOV, A. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

FONTENLA, JUAN. The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

FOSSATI, G. *ROSAT* Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

FOX, GEOFFREY K. Can the Variability of Solar-like Spotted Stars be Detected Polarimetrically? *Geoffrey K. Fox.* 441, 408, 65-A1 (1995)

FOX, PETER A. Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

FRANK, ADAM. Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

FREDRICK, L. W. The Brown Dwarf Candidate ESO 207−61: Its Distance and Very Low Luminosity. *P. A. Ianna & L. W. Fredrick.* 441, L47, 67-C5 (1995)

FROGEL, JAY A. An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

FRUCHTER, ANDREW S. *HST* Images of the Eclipsing Pulsar B1957+20. *Andrew S. Fruchter, Jay Bookbinder, & Charles D. Bailyn.* 443, L21, 102-D13 (1995)

FRUSCIONE, ANTONELLA. A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

FRYER, CHRIS. A Search for Pre–Main-Sequence Stars in High-Latitude Molecular Clouds. III. A Survey of the *Einstein* Database. *Jean-Pierre Caillault, Loris Magnani, & Chris Fryer.* 441, 261, 62-G12 (1995)

FUENTE, A. High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

FULBRIGHT, M. S. BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

FULLER, GEORGE M. Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

GAIER, T. C. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

GALLI, DANIELE. Galactic Evolution of D and ^{3}He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

GARCIA, MICHAEL R. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

GARNAVICH, P. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

GARNETT, DONALD R. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

GAUME, R. High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

GAUME, RALPH A. Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

GAYLEY, KENNETH G. Momentum Deposition in Wolf-Rayet Winds: Nonisotropic Diffusion with Effectively Gray Opacity. *Kenneth G. Gayley, Stanley P. Owocki, & Steven R. Cranmer.* 442, 296, 81-C2 (1995)

GEHRELS, N. See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

GEISLER, DOUG. Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

GENOVESE, CHRISTOPHER R. Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

GHEZ, A. M. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

GHISELLINI, GABRIELE. The Velocity of the Emitting Plasma of the Superluminal Galactic Source GRS 1915+105. *Gianluigi Bodo & Gabriele Ghisellini.* 441, L69, 75-G13 (1995)

GIAVALISCO, MAURO. *Hubble Space Telescope* Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

GIBB, ERIKA L. Activity Cycles in Cool Stars. I. Observation and Analysis Methods and Case Studies of Four Well-observed Examples. *Jeffrey C. Hall, G. W. Lockwood, & Erika L. Gibb.* 442, 778, 91-A1 (1995)

GILFANOV, M. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

GOLDMAN, ITZHAK. Turbulent Convection in Thin Accretion Disks. *Itzhak Goldman & Amri Wandel.* 443, 187, 97-F6 (1995)

GOLDSMITH, P. F. Gas-Phase Chemistry in Dense Interstellar Clouds Including Grain Surface Molecular Depletion and Desorption. *E. A. Bergin, W. D. Langer, & P. F. Goldsmith.* 441, 222, 62-D7 (1995)

GOLDWURM, A. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

GONZÁLEZ-RIESTRA, R. The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

GOODMAN, A. A. Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

GOODMAN, JEREMY. Femtolensing: Beyond the Semiclassical Approximation. *Andrew Ulmer & Jeremy Goodman.* 442, 67, 78-B4 (1995)

Influence of the Stellar Mass Function on the Evaporation Rate of Tidally Limited Postcollapse Globular Clusters. *Hyung Mok Lee & Jeremy Goodman.* 443, 109, 96-F4 (1995)

GOODMAN, MICHAEL L. Heating of the Solar Middle Chromosphere by Large-Scale Electric Currents. *Michael L. Goodman.* 443, 450, 101-C7 (1995)

GOREE, J. Cosmic Dust Synthesis by Accretion and Coagulation. *G. Praburam & J. Goree.* 441, 830, 73-D4 (1995)

GORENSTEIN, P. Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

GOSS, W. M. Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

H110α Observations of Sagittarius A West: Ionized Gas at Peculiar Velocities at the Galactic Center. *Farhad Yusef-Zadeh, Jun-Hui Zhao, & W. M. Goss.* 442, 646, 88-G9 (1995)

GOTT, J. RICHARD. Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

GOULD, ANDREW. Self-Lensing by a Stellar Disk. *Andrew Gould.* 441, 77, 60-D5 (1995)

Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

MACHO Parallaxes from a Single Satellite. *Andrew Gould.* 441, L21, 66-F1 (1995)

GRABELSKY, D. A. OSSE Observations of GX 339−4. *D. A. Grabelsky, S. M. Matz, W. R. Purcell, M. P. Ulmer, J. E. Grove, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, & G. V. Jung.* 441, 800, 73-A6 (1995)

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

GRAMANN, MIRT. Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

GRAVES, J. E. Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

GRAY, DAVID F. Magnetic Activity Variations of ε Eridani. *David F. Gray & Sallie L. Baliunas.* 441, 436, 65-D4 (1995)

GREEN, K. D. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

GREGG, MICHAEL D. The Influence of Stellar Populations on Elliptical Galaxy Distance Estimates. *Michael D. Gregg.* 443, 527, 105-B4 (1995)

GREINER, J. X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

GRIFFITHS, RICHARD E. A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

GRIGSBY, JAMES A. The Threshold for Stellar Winds in Hot Main-Sequence Stars. *James A. Grigsby & Nancy D. Morrison.* 442, 794, 91-B7 (1995)

GROESBECK, T. D. A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

GROVE, J. E. See GRABELSKY, D. A., et al. OSSE Observations of GX 339−4.

GRUBER, D. E. Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

GUARINI, GIANFRANCO. Influence of Galactic Dust on the Accuracy of Cosmic Microwave Anisotropy Measurements. *Gianfranco Guarini, Bianca Melchiorri, & Francesco Melchiorri.* 442, 23, 77-E1 (1995)

GÜSTEN, R. Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

GUNDERSEN, J. O. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results. *J. O. Gundersen, M. Lim, J. Staren, C. A. Wuensche, N. Figueiredo, T. C. Gaier, T. Koch, P. R. Meinhold, M. D. Seiffert, G. Cook, A. Segale, & P. M. Lubin.* 443, L57, 111-D10 (1995)

GUSEVA, NATALIA G. The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

GUSTAFSSON, BENGT. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

GUTIÉRREZ DE LA CRUZ, C. M. Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

GUZIK, T. GREGORY. The ^{3}He/^{4}He Ratios for Solar Energetic Particle Events during the *Combined Release and Radiation Effects Satellite* Mission. *Jiasheng Chen, T. Gregory Guzik, & John P. Wefel.* 442, 875, 92-C1 (1995)

HAIKALA, LAURI K. Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

HALL, JEFFREY C. Activity Cycles in Cool Stars. I. Observation and Analysis Methods and Case Studies of Four Well-observed Examples. *Jeffrey C. Hall, G. W. Lockwood, & Erika L. Gibb.* 442, 778, 91-A1 (1995)

HALPERN, JULES P. The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

HAMANN, FRED. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

HAMILTON, A. J. S. Reconstructing the Primordial Spectrum of Fluctuations of the Universe from the Observed Nonlinear Clustering of Galaxies: Erratum. *A. J. S. Hamilton, P. Kumar, Edward Lu, & Alex Matthews.* 442, L73, 94-G3 (1995) (Orig. paper in 374, L1, 103-B7 (1991))

HAMILTON, D. C. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

HAMILTON, TOM. New Upper Limits on the Local Metagalactic Ionizing Radiation Density. *Stuart N. Vogel, Ray Weymann, Michael Rauch, & Tom Hamilton.* 441, 162, 61-E10 (1995)

HAN, MINGSHENG. The Luminosity Structure and Objective Classification of Galaxies. *Mingsheng Han.* 442, 504, 86-G12 (1995)

HANCOCK, S. Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

HARDEE, PHILIP E. The Stability and Collimation of Three-dimensional Jets. *Philip E. Hardee, David A. Clarke, & D. Andrew Howell.* 441, 644, 71-A1 (1995)

HARMON, B. ALAN. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

HARRIS, WILLIAM E. Globular Cluster Systems in Three cD Galaxies within Rich Abell Clusters. *William E. Harris, Christopher J. Pritchet, & Robert D. McClure.* 441, 120, 61-A8 (1995)

HARTMAN, R. C. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

HARVEY, J. W. Measurement of High-Degree Solar Oscillation Frequencies. *K. T. Bachmann, T. L. Duvall, Jr., J. W. Harvey, & F. Hill.* 443, 837, 109-D3 (1995)

HARVEY, P. M. The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)

HASEGAWA, TATSUHIKO I. An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

HASHIMOTO, O. Infrared Properties of Circumstellar Dust Envelopes of Oxygen-rich Asymptotic Giant Branch Stars. *O. Hashimoto.* 442, 286, 81-B3 (1995)

HAUSCHILDT, P. H. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

HAUSCHILDT, PETER H. Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

HAUSER, MICHAEL G. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

HAYASHIDA, KIYOSHI. Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

HECKMAN, TIMOTHY M. The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

HEIDT, J. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

HEILES, C. Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

HEILES, CARL. A Fast Expanding H I Shell in W44: A Preexisting Wind-blown Shell Overtaken by a Supernova Remnant. *Bon-Chul Koo & Carl Heiles.* 442, 679, 89-E1 (1995)

HEINBACH, U. Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

HELLER, C. H. The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

HENRIKSEN, RICHARD N. Hydrogen Clouds and the MACHO/EROS Events. *Richard N. Henriksen & Lawrence M. Widrow.* 441, 70, 60-C8 (1995)

HENRY, J. PATRICK. An X-Ray Temperature Map of Abell 754: A Major Merger. *J. Patrick Henry & Ulrich G. Briel.* 443, L9, 102-C1 (1995)

HERBST, ERIC. The Importance of Classes of Neutral-Neutral Reactions in the Production of Complex Interstellar Molecules. *R. P. A. Bettens, H.-H. Lee, & Eric Herbst.* 443, 664, 107-A12 (1995)

A New Desorption Mechanism for Condensed Phase Interstellar CO. *Fedor Dzegilenko & Eric Herbst.* 443, L81, 112-A11 (1995)

HERNQUIST, LARS. Physically Detached "Compact Groups." *Lars Hernquist, Neal Katz, & David H. Weinberg.* 442, 57, 78-A3 (1995)

HETEM, ANNIBAL. Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

HEYER, MARK H. H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

HILL, F. Measurement of High-Degree Solar Oscillation Frequencies. *K. T. Bachmann, T. L. Duvall, Jr., J. W. Harvey, & F. Hill.* 443, 837, 109-D3 (1995)

HINSHAW, G. Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Basic Results. *G. Hinshaw, C. L. Bennett, & A. Kogut.* 441, L1, 66-C1 (1995)

Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Unresolved Features. *A. Kogut, G. Hinshaw, & C. L. Bennett.* 441, L5, 66-C10 (1995)

HIRAOKA, KENZO. Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)

HIRAYAMA, M. Long-Term Stability of Pulsed X-Ray Emission from the Crab Pulsar. *Y. Sekimoto, M. Hirayama, T. Kamae, & N. Kawai.* 443, 271, 99-A3 (1995)

HO, P. T. P. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

HÖFLICH, P. Analysis of the Type Ia Supernova SN 1994D. *P. Höflich.* 443, 89, 96-D9 (1995)

HOFFMAN, G. LYLE. The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

Disk Galaxies near the Line of Sight to 3C 273 and Conjectures on Lyman-Alpha Absorption. *E. E. Salpeter & G. Lyle Hoffman.* 441, 51, 60-A7 (1995)

HOGAN, CRAIG J. Giant Branch Mixing and the Ultimate Fate of Primordial Deuterium in the Galaxy. *Craig J. Hogan.* 441, L17, 66-E7 (1995)

HOGERHEIJDE, MICHIEL R. Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

HOGG, DAVID E. The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

HOLBERG, J. B. The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

HOLLENBACH, DAVID. The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)

HOLLIMAN, JOHN H., II. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

HOLLYWOOD, J. M. The Effects of Redshifts and Focusing on the Spectrum of an Accretion Disk in the Galactic Center Black Hole Candidate Sagittarius A*. *J. M. Hollywood & Fulvio Melia.* 443, L17, 102-D6 (1995)

HORNE, KEITH. The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

HORNER, S. Nightly Variations of Nonradial Oscillations in the Delta Scuti Star υ Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

HORVATH, JORGE E. Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

HOVESTADT, D. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

HOWELL, D. ANDREW. The Stability and Collimation of Three-dimensional Jets. *Philip E. Hardee, David A. Clarke, & D. Andrew Howell.* 441, 644, 71-A1 (1995)

HOWELL, R. R. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

HUANG, M. A. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

HUGHES, JOHN P. Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

HUNDHAUSEN, J. R. Magnetostatic Structures of the Solar Corona. II. The Magnetic Topology of Quiescent Prominences. *B. C. Low & J. R. Hundhausen.* 443, 818, 109-B9 (1995)

HUNTER, S. D. EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

HUT, PIET. Building a Better Leapfrog. *Piet Hut, Jun Makino, & Steve McMillan.* 443, L93, 112-C5 (1995)

HYMAN, SCOTT D. The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

IANNA, P. A. The Brown Dwarf Candidate ESO 207−61: Its Distance and Very Low Luminosity. *P. A. Ianna & L. W. Fredrick.* 441, L47, 67-C5 (1995)

IGASHIRA, M. Measurement of the $^{16}O(n, \gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant p-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

IGLESIAS, CARLOS A. Discrepancies between OPAL and OP Opacities at High Densities and Temperatures. *Carlos A. Iglesias & Forrest J. Rogers.* 443, 460, 101-D6 (1995)

IM, MYUNGSHIN. A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

INOUE, MOTOKO Y. Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

IWASAWA, K. The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

JAMESON, R. F. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

JEDAMZIK, KARSTEN. Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

JEDRZEJEWSKI, ROBERT. White Dwarfs and Mass Segregation in the Core of 47 Tucanae. *Francesco Paresce, Guido De Marchi, & Robert Jedrzejewski.* 442, L57, 94-D12 (1995)

JELINSKY, P. First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

JIMÉNEZ, A. A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

JOCKERS, K. Fabry-Perot Imaging of O III λ = 5007 Å Emission in the Io Plasma Torus. *M. Küppers & K. Jockers.* 441, L101, 76-E4 (1995)

JOHNSON, HOLLIS R. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*. *Hollis R. Johnson, Lisa M. Ensman, David R. Alexander, Eugene H. Avrett, Alexander Brown, Kenneth G. Carpenter, Kjell Eriksson, Bengt Gustafsson, Uffe G. Jørgensen, Philip D. Judge, Jeffrey L. Linsky, Donald G. Luttermoser, Francois Querci, Monique Querci, Richard D. Robinson, & Robert F. Wing.* 443, 281, 99-B6 (1995)

JOHNSON, W. N. See GRABELSKY, D. A., et al. OSSE Observations of GX 339–4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

JOHNSTON, SIMON. H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

Polarization Properties of Two Pulsars. *R. N. Manchester & Simon Johnston.* 441, L65, 75-G6 (1995)

JONES, T. W. Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-dimensional Flow. *Dongsu Ryu & T. W. Jones.* 442, 228, 80-C5 (1995)

JØRGENSEN, UFFE G. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

JOURDAIN, E. See CHURAZOV, E., et al. Detection of the A1742–294 X-Ray Burster above 35 keV.

JUDGE, PHILIP. The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

JUDGE, PHILIP D. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

JUNG, G. V. See GRABELSKY, D. A., et al. OSSE Observations of GX 339–4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

JUNKKARINEN, VESA. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

JUSZKIEWICZ, ROMAN. Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

KÄSTLE, H. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

KAHN, S. M. High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

KALENSKII, S. V. Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)

KAMAE, T. Long-Term Stability of Pulsed X-Ray Emission from the Crab Pulsar. *Y. Sekimoto, M. Hirayama, T. Kamae, & N. Kawai.* 443, 271, 99-A3 (1995)

A Unified Picture for High-Energy Emission in Spin-powered Pulsars. *T. Kamae & Y. Sekimoto.* 443, 780, 108-E7 (1995)

KAMIONKOWSKI, MARC. Microlensing by Stars. *Marc Kamionkowski.* 442, L9, 84-E5 (1995)

KANBACH, G. On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521–365.

KANTHARIA, NIMISHA G. High Rydberg State Carbon Recombination Lines toward Cassiopeia A: 332 MHz VLA Observations and Comparison with H I and Molecular Lines: Erratum. *K. R. Anantharamaiah, W. C. Erickson, H. E. Payne, & Nimisha G. Kantharia.* 442, 911, 92-G1 (1995) (Orig. paper in 430, 682, 170-C11 (1994))

KATAZA, HIROKAZU. Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

KATZ, NEAL. Physically Detached "Compact Groups." *Lars Hernquist, Neal Katz, & David H. Weinberg.* 442, 57, 78-A3 (1995)

KAWABATA, HIRONOBU. Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

KAWAI, N. Long-Term Stability of Pulsed X-Ray Emission from the Crab Pulsar. *Y. Sekimoto, M. Hirayama, T. Kamae, & N. Kawai.* 443, 271, 99-A3 (1995)

KAZANAS, DEMOSTHENES. Relativistic Hadrons and the Origin of Relativistic Outflows in Active Galactic Nuclei. *John Contopoulos & Demosthenes Kazanas.* 441, 521, 69-C2 (1995)

KELLOGG, MELINDA. The Nature of the Stellar Continuum in the Radio Galaxy 3C 65. *Alan Stockton, Melinda Kellogg, & Susan E. Ridgway.* 443, L69, 111-F9 (1995)

KELSALL, THOMAS. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

KENNEY, JEFFREY D. P. An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

KEOHANE, J. W. The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

KHERSONSKY, V. K. On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

KHERSONSKY, VALERY K. On Observational Constraints on the Shapes of the Dark Matter Density and Temperature Distributions in the Model of Dark Matter–confined Lyα Clouds. *Valery K. Khersonsky & David A. Turnshek.* 442, 76, 78-C2 (1995)

KIEDA, D. B. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

KIM, DONG-WOO. *ROSAT* PSPC Observations of the Early-Type Galaxies NGC 507 and NGC 499: Central Cooling and Mass Determination. *Dong-Woo Kim & G. Fabbiano.* 441, 182, 61-G10 (1995)

A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

KIM, SANG-HEE. Can We Improve upon Astronomical Silicate? *Sang-Hee Kim & P. G. Martin.* 442, 172, 79-E6 (1995)

KIM, YONG-CHEOL. Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

KING, ANDREW. X-Ray Emission of the Pulsar–Be Star Binary PSR 1259–63: Addendum. *Andrew King & Lynn Cominsky.* 442, 910, 92-F10 (1995) (Orig. paper in 435, 411, 249-B3 (1994))

KINGDON, J. Collisional Effects in He I: An Observational Analysis. *J. Kingdon & G. J. Ferland.* 442, 714, 90-A8 (1995)

KINNEY, ANNE L. The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

KINZER, R. L. See GRABELSKY, D. A., et al. OSSE Observations of GX 339–4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

KITAMOTO, SHUNJI. Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

KITAZAWA, H. Measurement of the $^{16}O(n,\gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant p-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

KJELDSEN, HANS. Modeling Solar-like Oscillations in η Bootis. *Jørgen Christensen-Dalsgaard, Timothy R. Bedding, & Hans Kjeldsen.* 443, L29, 102-F1 (1995)

KLECKER, B. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations. *B. Klecker, M. C. McNab, J. B. Blake, D. C. Hamilton, D. Hovestadt, H. Kästle, M. D. Looper, G. M. Mason, J. E. Mazur, & M. Scholer.* 442, L69, 94-F9 (1995)

KNAPEN, J. H. The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

KNIFFEN, D. A. On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

KNUDE, JENS. Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

KO, S. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

KOBULNICKY, HENRY A. CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

KOCH, T. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

KOCHANEK, CHRISTOPHER S. Gravitational Lens Inversions of Cl 0024+1654. *Sylvanie Wallington, Christopher S. Kochanek, & David C. Koo.* 441, 58, 60-B5 (1995)

KÖNIGL, ARIEH. Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

KOFMAN, LEV. Dynamics of Gravitational Instability Is Nonlocal. *Lev Kofman & Dmitry Pogosyan.* 442, 30, 77-E12 (1995)

Properties of the Cosmological Density Distribution Function. *Francis Bernardeau & Lev Kofman.* 443, 479, 104-F1 (1995)

KOGUT, A. Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Basic Results. *G. Hinshaw, C. L. Bennett, & A. Kogut.* 441, L1, 66-C1 (1995)

Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Unresolved Features. *A. Kogut, G. Hinshaw, & C. L. Bennett.* 441, L5, 66-C10 (1995)

KOO, BON-CHUL. A Fast Expanding H I Shell in W44: A Preexisting Wind-blown Shell Overtaken by a Supernova Remnant. *Bon-Chul Koo & Carl Heiles.* 442, 679, 89-E1 (1995)

KOO, DAVID C. Gravitational Lens Inversions of Cl 0024+1654. *Sylvanie Wallington, Christopher S. Kochanek, & David C. Koo.* 441, 58, 60-B5 (1995)

KORENDYKE, C. M. Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

KORIBALSKI, BÄRBEL. H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

KORZENNIK, S. G. Nightly Variations of Nonradial Oscillations in the Delta Scuti Star v Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

KOVTUNENKO, V. See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

KOYAMA, K. The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

KREMNEV, R. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

KÜPPERS, M. Fabry-Perot Imaging of O III λ = 5007 Å Emission in the Io Plasma Torus. *M. Küppers & K. Jockers.* 441, L101, 76-E4 (1995)

KUHN, J. R. Imaging Spectropolarimetry of the He I 1083 Nanometer Line in a Flaring Solar Active Region. *M. J. Penn & J. R. Kuhn.* 441, L51, 67-D1 (1995)

KUIJKEN, KONRAD. The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)

Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

KULKARNI, S. R. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

KUMAR, P. Reconstructing the Primordial Spectrum of Fluctuations of the Universe from the Observed Nonlinear Clustering of Galaxies: Erratum. *A. J. S. Hamilton, P. Kumar, Edward Lu, & Alex Matthews.* 442, L73, 94-G3 (1995) (Orig. paper in 374, L1, 103-B7 (1991))

KUNDU, M. R. Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

KURFESS, J. D. See GRABELSKY, D. A., et al. OSSE Observations of GX 339−4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

KUSANO, K. A Solar Flare Triggering Mechanism Based on the Woltjer-Taylor Minimum Energy Principle. *K. Kusano, Y. Suzuki, & K. Nishikawa.* 441, 942, 74-G9 (1995)

LADA, CHARLES J. The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

LAFLAMME, R. The Least-Action Method, Cold Dark Matter, and Ω. *A. M. Dunn & R. Laflamme.* 443, L1, 102-B1 (1995)

LAI, DONG. Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

LAKE, KAYLL. The Tinsley Diagram Revisited. *Stephen Leonard & Kayll Lake.* 441, L55, 75-F1 (1995)

LAMBERT, DAVID L. A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

LAMING, J. MARTIN. Stellar Coronal Abundances. II. The First Ionization Potential Effect and Its Absence in the Corona of Procyon. *Jeremy J. Drake, J. Martin Laming, & Kenneth G. Widing.* 443, 393, 100-E2 (1995)

Stellar Coronal Abundances. III. The Solar First Ionization Potential Effect Determined from Full-Disk Observation. *J. Martin Laming, Jeremy J. Drake, & Kenneth G. Widing.* 443, 416, 100-G2 (1995)

LAMPTON, MICHAEL. Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

LANGER, W. D. Gas-Phase Chemistry in Dense Interstellar Clouds Including Grain Surface Molecular Depletion and Desorption. *E. A. Bergin, W. D. Langer, & P. F. Goldsmith.* 441, 222, 62-D7 (1995)

LANTZ, STEVEN R. Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

Magnetoconvection Dynamics in a Stratified Layer. II. A Low-Order Model of the Tilting Instability. *Steven R. Lantz.* 441, 925, 74-F2 (1995)

LANZETTA, KENNETH M. The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

LARSEN, C. G. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

LASENBY, A. N. Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

LASOTA, JEAN-PIERRE. Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

LAUGHLIN, GREGORY. The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

LAZIO, T. JOSEPH W. Images of HCO^+ (1–0) Emission in a Molecular Cloud near 1E 1740.7−2942. *J. A. Phillips & T. Joseph W. Lazio.* 442, L37, 85-B7 (1995)

LEE, H.-H. The Importance of Classes of Neutral-Neutral Reactions in the Production of Complex Interstellar Molecules. *R. P. A. Bettens, H.-H. Lee, & Eric Herbst.* 443, 664, 107-A12 (1995)

LEE, HYUNG MOK. Influence of the Stellar Mass Function on the Evaporation Rate of Tidally Limited Postcollapse Globular Clusters. *Hyung Mok Lee & Jeremy Goodman.* 443, 109, 96-F4 (1995)

LEE, YOUNGUNG. Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

LEINERT, CH. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

LEKHT, E. E. Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)

LEONARD, STEPHEN. The Tinsley Diagram Revisited. *Stephen Leonard & Kayll Lake.* 441, L55, 75-F1 (1995)

LEONE, STEPHEN R. Laboratory Studies of 3.3 Micron Emission from Naphthalene Induced by 193 and 248 Nanometer Excitation. *Richard M. Williams & Stephen R. Leone.* 443, 675, 107-B13 (1995)

LE ROUX, J. A. The Simulation of Complete 11 and 22 Year Modulation Cycles for Cosmic Rays in the Heliosphere Using a Drift Model with Global Merged Interaction Regions. *J. A. le Roux & M. S. Potgieter.* 442, 847, 91-G3 (1995)

LESTER, D. F. The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)

LE STRANGE, E. T. A Star Trail Model of the Galactic Center Snake. *Jennifer Nicholls & E. T. Le Strange.* 443, 638, 106-F3 (1995)

LEVENTHAL, M. See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

LEVINSON, A. Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

LEWIS, B. M. The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

LI, HONGWEI. The He I Emission Lines of SN 1987A. *Hongwei Li & Richard McCray.* 441, 821, 73-C6 (1995)

LI, PENG. Directivity and Its Energy Dependence in Solar Flare Energetic Emission. *Peng Li.* 443, 855, 109-F1 (1995)

LI, QI-BIN. The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

LIEBERT, JAMES. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

LIM, J. Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

LIM, M. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

LIN, D. N. C. On the Tidal Disruption of Dwarf Spheroidal Galaxies around the Galaxy. *K. S. Oh, D. N. C. Lin, & S. J. Aarseth.* 442, 142, 79-B9 (1995)

LIN, Y. C. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365. *Y. C. Lin, D. L. Bertsch, B. L. Dingus, J. A. Esposito, C. E. Fichtel, R. C. Hartman, S. D. Hunter, G. Kanbach, D. A. Kniffen, H. A. Mayer-Hasselwander, P. F. Michelson, C. von Montigny, R. Mukherjee, P. L. Nolan, E. Schneid, P. Sreekumar, & D. J. Thompson.* 442, 96, 78-E7 (1995)

LINGENFELTER, R. E. Repeating Sources of Classical Gamma-Ray Bursts. *V. C. Wang & R. E. Lingenfelter.* 441, 747, 72-C1 (1995)

LINSKY, JEFFREY L. The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

LIPMAN, KEITH. Interstellar Titanium in the Galactic Halo. *Keith Lipman & Max Pettini.* 442, 628, 88-E8 (1995)

LIPOVETSKY, VALENTIN A. The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

LIPUNOV, V. M. On the Nature of the Binary Radio Pulsar PSR B0042−73 in the Small Magellanic Cloud. *V. M. Lipunov, K. A. Postnov, & M. E. Prokhorov.* 441, 776, 72-F1 (1995)

LISSE, CAREY M. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

LISZT, HARVEY S. Widespread Molecular Emission in the Galactic Plane from Species Other Than ^{12}CO. *Harvey S. Liszt.* 442, 163, 79-D8 (1995)

LIVIO, MARIO. The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

LOCKWOOD, G. W. Activity Cycles in Cool Stars. I. Observation and Analysis Methods and Case Studies of Four Well-observed Examples. *Jeffrey C. Hall, G. W. Lockwood, & Erika L. Gibb.* 442, 778, 91-A1 (1995)

LOCKWOOD, J. A. An Estimate of the Location of the Modulation Boundary for $E > 70$ MeV Galactic Cosmic Rays Using *Voyager* and *Pioneer* Spacecraft Data. *J. A. Lockwood & W. R. Webber.* 442, 852, 91-G12 (1995)

LOEB, ABRAHAM. Origin of Quasar Progenitors from the Collapse of Low-Spin Cosmological Perturbations. *Daniel J. Eisenstein & Abraham Loeb.* 443, 11, 95-D3 (1995)

LOH, E. C. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

LONG, KNOX S. *ROSAT* Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

LOOPER, M. D. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

LOU, YU-QING. Gravity Waves in the Lower Solar Corona. *Yu-Qing Lou.* 442, 401, 82-E1 (1995)

LOVEDAY, J. The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

LOW, B. C. Magnetostatic Structures of the Solar Corona. II. The Magnetic Topology of Quiescent Prominences. *B. C. Low & J. R. Hundhausen.* 443, 818, 109-B9 (1995)

LU, EDWARD. Reconstructing the Primordial Spectrum of Fluctuations of the Universe from the Observed Nonlinear Clustering of Galaxies: Erratum. *A. J. S. Hamilton, P. Kumar, Edward Lu, & Alex Matthews.* 442, L73, 94-G3 (1995) (Orig. paper in 374, L1, 103-B7 (1991))

LUBIN, P. M. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

LUBOWICH, D. A. A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

LUCCHIN, FRANCESCO. Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

LUO, M. Z. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

LUO, SHAN. Bayesian Approaches to Testing the Nature of Primordial Density Fluctuation. *Shan Luo & Ethan Vishniac.* 443, 469, 104-D1 (1995)

LUTTERMOSER, DONALD G. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

LYONS, R. Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

MAARTENS, R. Proving Almost-Homogeneity of the Universe: An Almost Ehlers-Geren-Sachs Theorem. *W. R. Stoeger, R. Maartens, & G. F. R. Ellis.* 443, 1, 95-C1 (1995)

MACCHETTO, F. DUCCIO. *Hubble Space Telescope* Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

MAC LOW, MORDECAI-MARK. Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

MADAU, PIERO. Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

Hubble Space Telescope Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

MADDOX, S. J. The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

MAGNANI, LORIS. A Search for Pre–Main-Sequence Stars in High-Latitude Molecular Clouds. III. A Survey of the *Einstein* Database. *Jean-Pierre Caillault, Loris Magnani, & Chris Fryer.* 441, 261, 62-G12 (1995)

A New Method for Determining the CO to H_2 Conversion Factor for Translucent Clouds. *Loris Magnani & Joseph S. Onello.* 443, 169, 97-D9 (1995)

MAKINO, JUN. Building a Better Leapfrog. *Piet Hut, Jun Makino, & Steve McMillan.* 443, L93, 112-C5 (1995)

MALINA, ROGER F. A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

MALKAN, M. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

MANCHESTER, R. N. Polarization Properties of Two Pulsars. *R. N. Manchester & Simon Johnston.* 441, L65, 75-G6 (1995)

MANDROU, P. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

MANNUCCI, FILIPPO. Infrared Line Emission from High-Redshift Galaxies. I. Calculations. *Filippo Mannucci & Steven V. W. Beckwith.* 442, 569, 87-F8 (1995)

MAO, SHUDE. On the Universality of Microlensing in Quadruple Gravitational Lenses. *Hans J. Witt, Shude Mao, & Paul L. Schechter.* 443, 18, 95-D13 (1995)

MAOZ, DAN. Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

MARAN, STEPHEN P. Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

MARASCHI, L. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

ROSAT Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

MARCONI, M. The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

MARCONI, M. L. Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of Mercury. *William H. Smyth & M. L. Marconi.* 441, 839, 73-E12 (1995)

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of the Moon. *William H. Smyth & M. L. Marconi.* 443, 371, 100-C4 (1995)

MARTIN, P. G. Can We Improve upon Astronomical Silicate? *Sang-Hee Kim & P. G. Martin.* 442, 172, 79-E6 (1995)

MARTÍN-PINTADO, J. High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

MASON, G. M. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

MASSON, C. R. Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

MASSON, COLIN R. Powerful Jets and Weak Outflows: HH 1–2 and HH 34. *Lawrence M. Chernin & Colin R. Masson.* 443, 181, 97-E11 (1995)

MASUDA, K. Measurement of the $^{16}O(n, \gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant p-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

MATARRESE, SABINO. Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

MATHESON, T. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

MATHEWS, GRANT J. Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

MATSUSHIMA, FUSAKAZU. Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

MATTESON, J. L. Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

MATTHEWS, ALEX. Reconstructing the Primordial Spectrum of Fluctuations of the Universe from the Observed Nonlinear Clustering of Galaxies: Erratum. *A. J. S. Hamilton, P. Kumar, Edward Lu, & Alex Matthews.* 442, L73, 94-G3 (1995) (Orig. paper in 374, L1, 103-B7 (1991))

MATTHEWS, K. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

MATTILA, KALEVI. Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

MATZ, S. M. See GRABELSKY, D. A., et al. OSSE Observations of GX 339−4.

MAUERSBERGER, R. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

MAYER-HASSELWANDER, H. A. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

MAZA, J. Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

MAZUR, J. E. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

MCCLINTOCK, JEFFREY E. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

MCCLURE, ROBERT D. Globular Cluster Systems in Three cD Galaxies within Rich Abell Clusters. *William E. Harris, Christopher J. Pritchet, & Robert D. McClure.* 441, 120, 61-A8 (1995)

MCCRAY, RICHARD. The He I Emission Lines of SN 1987A. *Hongwei Li & Richard McCray.* 441, 821, 73-C6 (1995)

MCDONALD, KELLEY. A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

MCKEE, CHRISTOPHER F. The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)

MCLEOD, K. K. Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

MCMILLAN, STEVE. Building a Better Leapfrog. *Piet Hut, Jun Makino, & Steve McMillan.* 443, L93, 112-C5 (1995)

MCNAB, M. C. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

MCNAMARA, BRIAN R. Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

MEEGAN, C. A. Time-dependent Clustering Analysis of the Second BATSE Gamma-Ray Burst Catalog. *J. J. Brainerd, C. A. Meegan, Michael S. Briggs, G. N. Pendleton, & M. N. Brock.* 441, L39, 67-B1 (1995)

MEHRINGER, DAVID M. Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

MEINHOLD, P. R. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

MELCHIORRI, BIANCA. Influence of Galactic Dust on the Accuracy of Cosmic Microwave Anisotropy Measurements. *Gianfranco Guarini, Bianca Melchiorri, & Francesco Melchiorri.* 442, 23, 77-E1 (1995)

MELCHIORRI, FRANCESCO. Influence of Galactic Dust on the Accuracy of Cosmic Microwave Anisotropy Measurements. *Gianfranco Guarini, Bianca Melchiorri, & Francesco Melchiorri.* 442, 23, 77-E1 (1995)

MELIA, FULVIO. The Effects of Redshifts and Focusing on the Spectrum of an Accretion Disk in the Galactic Center Black Hole Candidate Sagittarius A*. *J. M. Hollywood & Fulvio Melia.* 443, L17, 102-D6 (1995)

MENDOZA-TORRES, E. Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)

MENTEN, K. M. Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

MEREGHETTI, S. The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

MERRIFIELD, MICHAEL R. Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

MERRITT, DAVID. Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

MEYER, DAVID M. Cyanogen Excitation in Diffuse Interstellar Clouds. *Katherine C. Roth & David M. Meyer.* 441, 129, 61-B7 (1995)

MICHALITSIANOS, A. G. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

MICHELSON, P. F. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

MIDDLEDITCH, JOHN. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

MILLER, M. COLEMAN. Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

MISSELT, K. A. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

MITCHELL, GEORGE F. An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

MIYAKE, KOTARO. Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

MIYAMOTO, SIGENORI. Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

MOORE, BEN. Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

MOORE, R. L. On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

MORAN, J. M. Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

MORENO-INSERTIS, F. Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *F. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

MORINO, ISAMU. Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

MORRISON, NANCY D. The Threshold for Stellar Winds in Hot Main-Sequence Stars. *James A. Grigsby & Nancy D. Morrison.* 442, 794, 91-B7 (1995)

MOSCARDINI, LAURO. Moments of the Cluster Distribution as a Test of Dark Matter Models. *Manolis Plionis, Stefano Borgani, Lauro Moscardini, & Peter Coles.* 441, L57, 75-F6 (1995)

Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

MOSELEY, S. HARVEY, JR. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

MOUTARDE, F. Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

MUKHERJEE, R. EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

MULLAN, D. J. Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

MUNDY, LEE G. A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

MUSHOTZKY, R. F. The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

MUSIELAK, Z. E. On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

MUSLIMOV, A. G. Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

MUTO, HACHIZO. Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)

MYERS, P. C. Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

NAGAI, Y. Measurement of the $^{16}O(n, \gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant *p*-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

NAKAGAWA, YOSHITSUGU. Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

NAPIWOTZKI, R. BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

NARAYAN, RAMESH. Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

NEDOLUHA, GERALD E. A Nonlocal Calculation of Circumstellar OH Maser Emission. *Alan J. Collison & Gerald E. Nedoluha.* 442, 311, 81-D6 (1995)

NELSON, G. J. Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

NELSON, M. J. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

NEUGEBAUER, G. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

NEWMAN, WILLIAM I. Combinatorics and Companion Galaxies: Paradox Lost. *William I. Newman & Yervant Terzian.* 441, 505, 69-A8 (1995)

NICE, D. J. PSR J2019+2425 and PSR J2322+2057 and the Proper Motions of Millisecond Pulsars. *D. J. Nice & J. H. Taylor.* 441, 429, 65-C7 (1995)

NICHOLLS, JENNIFER. A Star Trail Model of the Galactic Center Snake. *Jennifer Nicholls & E. T. Le Strange.* 443, 638, 106-F3 (1995)

NISENSON, P. Nightly Variations of Nonradial Oscillations in the Delta Scuti Star v Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

NISHIKAWA, K. A Solar Flare Triggering Mechanism Based on the Woltjer-Taylor Minimum Energy Principle. *K. Kusano, Y. Suzuki, & K. Nishikawa.* 441, 942, 74-G9 (1995)

NOLAN, P. L. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

NORMAN, MICHAEL L. Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

NORRIS, JOHN E. The Sodium/Aluminum–Oxygen Anticorrelation in ω Centauri and Other Clusters. *John E. Norris & G. S. Da Costa.* 441, L81, 76-B11 (1995)

NORTHCOTT, M. J. Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

NOVICKOV, B. See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

NOYES, R. W. Nightly Variations of Nonradial Oscillations in the Delta Scuti Star v Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

NUGENT, PETER. Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

O'CONNELL, ROBERT W. Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

ODASHIMA, HITOSHI. Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

O'DEA, C. P. The Megaparsec-Scale Environments of BL Lacertae Objects. *Eric P. Smith, C. P. O'Dea, & S. A. Baum.* 441, 113, 60-G11 (1995)

OH, K. S. On the Tidal Disruption of Dwarf Spheroidal Galaxies around the Galaxy. *K. S. Oh, D. N. C. Lin, & S. J. Aarseth.* 442, 142, 79-B9 (1995)

OHSAKI, T. Measurement of the $^{16}O(n, \gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant *p*-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

OKE, J. B. Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

OLIVE, J. F. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

ONELLO, JOSEPH S. A New Method for Determining the CO to H_2 Conversion Factor for Translucent Clouds. *Loris Magnani & Joseph S. Onello.* 443, 169, 97-D9 (1995)

OROSZ, JEROME A. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

OSTERHELD, A. High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

ØSTGAARD, E. Variability Spectra of Orbiting Blobs around a Black Hole. *G. Bao & E. Østgaard.* 443, 54, 96-A4 (1995)

OSTRIKER, J. P. Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

OWEN, F. N. Detection of an H I Disk in Hydra A? *K. S. Dwarakanath, F. N. Owen, & J. H. van Gorkom.* 442, L1, 84-D1 (1995)

OWOCKI, STANLEY P. Momentum Deposition in Wolf-Rayet Winds: Nonisotropic Diffusion with Effectively Gray Opacity. *Kenneth G. Gayley, Stanley P. Owocki, & Steven R. Cranmer.* 442, 296, 81-C2 (1995)

OZAKI, M. The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

PACIESAS, WILLIAM S. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

PAGE, DANY. Surface Temperature of a Magnetized Neutron Star and Interpretation of the *ROSAT* Data. I. Dipolar Fields. *Dany Page.* 442, 273, 81-A1 (1995)

PALLA, FRANCESCO. Galactic Evolution of D and ^3He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

PALLÉ, P. L. A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

PARESCE, FRANCESCO. Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

White Dwarfs and Mass Segregation in the Core of 47 Tucanae. *Francesco Paresce, Guido De Marchi, & Robert Jedrzejewski.* 442, L57, 94-D12 (1995)

PARKER, E. N. Theoretical Properties of Ω-Loops in the Convective Zone of the Sun. III. Extended Updrafts. *E. N. Parker.* 442, 405, 82-E8 (1995)

PASSOT, THIERRY. A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

PAUL, J. See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

PAYNE, H. E. High Rydberg State Carbon Recombination Lines toward Cassiopeia A: 332 MHz VLA Observations and Comparison with H I and Molecular Lines: Erratum. *K. R. Anantharamaiah, W. C. Erickson, H. E. Payne, & Nimisha G. Kantharia.* 442, 911, 92-G1 (1995) (Orig. paper in 430, 682, 170-C11 (1994))

PEIMBERT, M. Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

PEIMBERT, MANUEL. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

PELETIER, R. F. The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

PELLAT, R. Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

PEÑA, M. Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

PENCO, UMBERTO. Galactic Evolution of D and ^{3}He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

PENDLETON, G. N. Time-dependent Clustering Analysis of the Second BATSE Gamma-Ray Burst Catalog. *J. J. Brainerd, C. A. Meegan, Michael S. Briggs, G. N. Pendleton, & M. N. Brock.* 441, L39, 67-B1 (1995)

PENN, M. J. Imaging Spectropolarimetry of the He I 1083 Nanometer Line in a Flaring Solar Active Region. *M. J. Penn & J. R. Kuhn.* 441, L51, 67-D1 (1995)

PERCIVAL, J. W. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

PÉREZ HERNÁNDEZ, F. A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

PERSI, FRED M. Reionization and the Cosmic Microwave Background in an Open Universe. *Fred M. Persi.* 441, 1, 59-C1 (1995)

Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

PESCE, ENRICO. Yet Another Theory for the Origin of Halo Globular Clusters and Spheroid Stars. *Mario Vietri & Enrico Pesce.* 442, 618, 88-D8 (1995)

PETERSON, B. A. The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

PETERSON, BRADLEY M. Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

PETERSON, L. E. Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

PETERSON, RUTH C. Radial Velocities of Stars in the Globular Cluster M4 and the Cluster Distance. *Ruth C. Peterson, Richard F. Rees, & Kyle M. Cudworth.* 443, 124, 96-G11 (1995)

PETITJEAN, PATRICK. The Absorption Spectrum of Nuclear Gas in Q0059−2735. *E. Joseph Wampler, Nikolai N. Chugai, & Patrick Petitjean.* 443, 586, 106-A4 (1995)

PETROSIAN, VAHÉ. On the Correlation of Angular Position with Time of Occurrence of Gamma-Ray Bursts. *Vahé Petrosian & Bradley Efron.* 441, L37, 67-A9 (1995)

PETRUCCI, P. O. See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

PETTINI, MAX. Interstellar Titanium in the Galactic Halo. *Keith Lipman & Max Pettini.* 442, 628, 88-E8 (1995)

PHILLIPS, J. A. Images of HCO^+ (1–0) Emission in a Molecular Cloud near 1E 1740.7−2942. *J. A. Phillips & T. Joseph W. Lazio.* 442, L37, 85-B7 (1995)

PHILLIPS, T. G. Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)

PIAN, E. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

PILDIS, RACHEL A. *ROSAT* Observations of Compact Groups of Galaxies. *Rachel A. Pildis, Joel N. Bregman, & August E. Evrard.* 443, 514, 105-A1 (1995)

PINHO, G. P. 3.4 Micron Emission from Ultraviolet Excitation of Alkanes. *G. P. Pinho & W. W. Duley.* 442, L41, 85-C1 (1995)

PINSONNEAULT, M. H. Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

PLEZ, BERTRAND. A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

PLIONIS, MANOLIS. Moments of the Cluster Distribution as a Test of Dark Matter Models. *Manolis Plionis, Stefano Borgani, Lauro Moscardini, & Peter Coles.* 441, L57, 75-F6 (1995)

POGGE, R. W. An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

POGOSYAN, DMITRY. Dynamics of Gravitational Instability Is Nonlocal. *Lev Kofman & Dmitry Pogosyan.* 442, 30, 77-E12 (1995)

POPHAM, ROBERT. Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

POSTNOV, K. A. On the Nature of the Binary Radio Pulsar PSR B0042−73 in the Small Magellanic Cloud. *V. M. Lipunov, K. A. Postnov, & M. E. Prokhorov.* 441, 776, 72-F1 (1995)

POTGIETER, M. S. The Simulation of Complete 11 and 22 Year Modulation Cycles for Cosmic Rays in the Heliosphere Using a Drift Model with Global Merged Interaction Regions. *J. A. le Roux & M. S. Potgieter.* 442, 847, 91-G3 (1995)

POUND, MARC W. Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

POUQUET, ANNICK. A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

PRABURAM, G. Cosmic Dust Synthesis by Accretion and Coagulation. *G. Praburam & J. Goree.* 441, 830, 73-D4 (1995)

PRADHAN, ANIL K. Iron to Oxygen Abundance Ratio in the Orion Nebula. *Manuel A. Bautista & Anil K. Pradhan.* 442, L65, 94-F1 (1995)

PRINCE, THOMAS A. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

PRITCHET, CHRISTOPHER J. Globular Cluster Systems in Three cD Galaxies within Rich Abell Clusters. *William E. Harris, Christopher J. Pritchet, & Robert D. McClure.* 441, 120, 61-A8 (1995)

PROKHOROV, M. E. On the Nature of the Binary Radio Pulsar PSR B0042−73 in the Small Magellanic Cloud. *V. M. Lipunov, K. A. Postnov, & M. E. Prokhorov.* 441, 776, 72-F1 (1995)

PURCELL, W. R. See GRABELSKY, D. A., et al. OSSE Observations of GX 339−4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

PUSTIL'NIK, SIMON A. The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

QIAN, E. E. Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

QUERCI, FRANCOIS. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

QUERCI, MONIQUE. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

QUILLEN, A. C. An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

RAST, MARK PETER. On the Nature of "Exploding" Granules and Granule Fragmentation. *Mark Peter Rast.* 443, 863, 109-F12 (1995)

RATNATUNGA, KAVAN U. A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

RAUCH, MICHAEL. New Upper Limits on the Local Metagalactic Ionizing Radiation Density. *Stuart N. Vogel, Ray Weymann, Michael Rauch, & Tom Hamilton.* 441, 162, 61-E10 (1995)

RAY, PAUL S. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo. *Paul S. Ray, W. T. S. Deich, S. R. Kulkarni, Thomas A. Prince, S. E. Thorsett, Gautam Vasishi, A. Wolszczan, Donald C. Backer, John H. Holliman II, & John Middleditch.* 443, 265, 98-G8 (1995)

REACH, WILLIAM T. Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

REBOLO, R. Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

REES, RICHARD F. Radial Velocities of Stars in the Globular Cluster M4 and the Cluster Distance. *Ruth C. Peterson, Richard F. Rees, & Kyle M. Cudworth.* 443, 124, 96-G11 (1995)

RÉGULO, C. A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

REID, M. J. Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

REINSCH, K. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misseli, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

REISENEGGER, ANDREAS. Deviations from Chemical Equilibrium Due to Spin-down as an Internal Heat Source in Neutron Stars. *Andreas Reisenegger.* 442, 749, 90-E3 (1995)

REMILLARD, RONALD A. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

RENZINI, ALVIO. Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

REPHAELI, YOEL. Energetic Proton Heating of Gas in the Core of the Perseus Cluster. *Yoel Rephaeli & Joseph Silk.* 442, 91, 78-D13 (1995)

RIBEIRO, MARCELO B. Observations in the Einstein–de Sitter Cosmology: Dust Statistics and Limits of Apparent Homogeneity. *Marcelo B. Ribeiro.* 441, 477, 68-E13 (1995)

RICHARDS, MERCEDES T. The Transient Accretion Disk in the Algol-Type Binary U Sagittae. *Geary E. Albright & Mercedes T. Richards.* 441, 806, 73-B2 (1995)

RICHICHI, A. See SIMON, M., et al. A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions.

RICKETT, B. J. Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

RIDGWAY, SUSAN E. The Nature of the Stellar Continuum in the Radio Galaxy 3C 65. *Alan Stockton, Melinda Kellogg, & Susan E. Ridgway.* 443, L69, 111-F9 (1995)

RIEKE, G. H. Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

ROBERTS, D. A. The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)

ROBERTS, MORTON S. The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

ROBINSON, E. L. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles. *E. L. Robinson, Janet H. Wood, R. C. Bless, J. C. Clemens, J. F. Dolan, J. L. Elliot, M. J. Nelson, J. W. Percival, M. J. Taylor, G. W. van Citters, & E. Zhang.* 443, 295, 99-C9 (1995)

ROBINSON, R. D. Mg II *h* and *k* Profiles in High-Luminosity, Late-Type Stars. *R. D. Robinson & K. G. Carpenter.* 442, 328, 81-E12 (1995)

ROBINSON, RICHARD D. Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

ROCA CORTÉS, T. A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

RODDIER, C. Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

RODDIER, F. Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

RODRÍGUEZ, L. F. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

ROGERS, C. H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

ROGERS, FORREST J. Discrepancies between OPAL and OP Opacities at High Densities and Temperatures. *Carlos A. Iglesias & Forrest J. Rogers.* 443, 460, 101-D6 (1995)

ROOD, ROBERT T. Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

ROQUES, J. P. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

ROSNER, R. On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

On the Spatial Distribution of Magnetic Fields on the Solar Surface. *L. Tao, Y. Du, R. Rosner, & F. Cattaneo.* 443, 434, 101-A12 (1995)

ROTH, KATHERINE C. Cyanogen Excitation in Diffuse Interstellar Clouds. *Katherine C. Roth & David M. Meyer.* 441, 129, 61-B7 (1995)

ROTTMAN, GARY J. The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

ROUMELIOTIS, G. Asymptotic Analysis of Force-free Magnetic Fields of Cylindrical Symmetry. *P. A. Sturrock, S. K. Antiochos, & G. Roumeliotis.* 443, 804, 109-A1 (1995)

RUDNICK, L. The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

RUFFOLO, D. Effect of Adiabatic Deceleration on the Focused Transport of Solar Cosmic Rays. *D. Ruffolo.* 442, 861, 92-A12 (1995)

RUIZ, M. T. Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

RYU, DONGSU. Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-dimensional Flow. *Dongsu Ryu & T. W. Jones.* 442, 228, 80-C5 (1995)

SACKMANN, I.-JULIANA. Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

SADUN, A. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

SAKEN, JON M. *ROSAT* Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

SALAMON, M. H. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

SALPETER, E. E. The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

Disk Galaxies near the Line of Sight to 3C 273 and Conjectures on Lyman-Alpha Absorption. *E. E. Salpeter & G. Lyle Hoffman.* 441, 51, 60-A7 (1995)

SÁNCHEZ, L. A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

SANDELL, GÖRAN. A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

SASSEEN, TIMOTHY P. Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

SATO, TETSUYA. Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)

SAUMON, D. New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

SCHAEIDT, S. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

SCHECHTER, PAUL L. On the Universality of Microlensing in Quadruple Gravitational Lenses. *Hans J. Witt, Shude Mao, & Paul L. Schechter.* 443, 18, 95-D13 (1995)

SCHILKE, PETER. Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)

SCHMIDT, GARY D. Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

SCHMIEDER, B. Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SCHNEID, E. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521–365.

SCHOLER, M. See KLECKER, B., et al. Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations.

SCHÜSSLER, M. Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

SCHULMAN, ERIC. High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

SCHWOPE, A. D. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misseli, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

SCOTT, DOUGLAS. The *COBE* Normalization for Standard Cold Dark Matter. *Emory F. Bunn, Douglas Scott, & Martin White.* 441, L9, 66-D4 (1995)

SEAB, C. GREGORY. Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

SEAQUIST, E. R. The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

SEGALE, A. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

SEIFFERT, M. D. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

SEKIMOTO, Y. Long-Term Stability of Pulsed X-Ray Emission from the Crab Pulsar. *Y. Sekimoto, M. Hirayama, T. Kamae, & N. Kawai.* 443, 271, 99-A3 (1995)

A Unified Picture for High-Energy Emission in Spin-powered Pulsars. *T. Kamae & Y. Sekimoto.* 443, 780, 108-E7 (1995)

SELLGREN, K. A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

SERLEMITSOS, P. J. The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

SHAFTER, A. W. RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

SHAPIRO, STUART L. Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

SHARA, MICHAEL M. Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

SHEIKHET, A. See CHURAZOV, E., et al. Detection of the A1742–294 X-Ray Burster above 35 keV.

SHIELDS, GREGORY A. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

SHIELDS, JOSEPH C. Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

SHLOSMAN, I. The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

SHLOSMAN, ISAAC. A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

SILK, JOSEPH. Reionization in an Open Cold Dark Matter Universe: Implications for Cosmic Microwave Background Fluctuations. *Max Tegmark & Joseph Silk.* 441, 458, 68-C13 (1995)

Energetic Proton Heating of Gas in the Core of the Perseus Cluster. *Yoel Rephaeli & Joseph Silk.* 442, 91, 78-D13 (1995)

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

SILVERBERG, ROBERT F. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

SIMON, G. W. Kinematic Models of Supergranular Diffusion on the Sun. *G. W. Simon, A. M. Title, & N. O. Weiss.* 442, 886, 92-D2 (1995)

SIMON, M. Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions. *M. Simon, A. M. Ghez,*

Ch. Leinert, L. Cassar, W. P. Chen, R. R. Howell, R. F. Jameson, K. Matthews, G. Neugebauer, & A. Richichi. 443, 625, 106-E1 (1995)

SKILLMAN, EVAN D. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

SLYSH, V. I. Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)

SMALE, A. P. The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

SMITH, BEVERLY J. The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)

SMITH, D. M. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE. *D. M. Smith, M. Leventhal, N. Gehrels, J. Tueller, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, D. A. Grabelsky, W. R. Purcell, M. P. Ulmer, & G. V. Jung.* 443, 117, 96-G1 (1995)

SMITH, ERIC P. The Megaparsec-Scale Environments of BL Lacertae Objects. *Eric P. Smith, C. P. O'Dea, & S. A. Baum.* 441, 113, 60-G11 (1995)

SMITH, J. D. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

SMITH, MICHAEL D. Distinction of Parallel Outflows in L1448 through H_2 Excitation. *Christopher J. Davis & Michael D. Smith.* 443, L41, 102-G14 (1995)

SMITH, MYRON A. Dynamic Processes in Be Star Atmospheres. III. Rapid Multiwavelength Variability in γ Cassiopeiae. *Myron A. Smith.* 442, 812, 91-D2 (1995)

SMITH, VERNE V. A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

SMYTH, WILLIAM H. Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of Mercury. *William H. Smyth & M. L. Marconi.* 441, 839, 73-E12 (1995)

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of the Moon. *William H. Smyth & M. L. Marconi.* 443, 371, 100-C4 (1995)

SNOW, THEODORE P., JR. Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

SOCKER, D. G. Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SOFIA, SABATINO. Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

SOIFER, B. T. Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

SOKOLSKY, P. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

SOMMERS, P. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

SOMMERS, PAUL. In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

SOROCHENKO, R. L. Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)

SPAANS, MARCO. Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

SPANGLER, S. R. Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

SPARKS, WILLIAM B. *Hubble Space Telescope* Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

SPERGEL, DAVID N. Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

SPIESMAN, WILLIAM J. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment. *William J. Spiesman, Michael G. Hauser, Thomas Kelsall, Carey M. Lisse, S. Harvey Moseley, Jr., William T. Reach, Robert F. Silverberg, Sally W. Stemwedel, & Janet L. Weiland.* 442, 662, 89-B8 (1995)

SRAMEK, RICHARD A. The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

SREDNICKI, MARK. Window Functions for Cosmic Microwave Background Experiments. *Martin White & Mark Srednicki.* 443, 6, 95-C9 (1995)

SREEKUMAR, P. On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

STAIANO, L. The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

STANEK, K. Z. Magnitude Offset between Lensed Stars and Observed Stars: A New Probe of the Structure of the Galactic Bar. *K. Z. Stanek.* 441, L29, 66-G3 (1995)

STAREN, J. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

STARK, PHILIP B. Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

STELLA, L. The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

STELLINGWERF, R. F. The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

STEMWEDEL, SALLY W. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

STOCKMAN, H. S. Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

STOCKTON, ALAN. The Nature of the Stellar Continuum in the Radio Galaxy 3C 65. *Alan Stockton, Melinda Kellogg, & Susan E. Ridgway.* 443, L69, 111-F9 (1995)

STOEGER, W. R. Proving Almost-Homogeneity of the Universe: An Almost Ehlers-Geren-Sachs Theorem. *W. R. Stoeger, R. Maartens, & G. F. R. Ellis.* 443, 1, 95-C1 (1995)

STORCHI-BERGMANN, THAISA. The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

STORY, T. Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

STRICKMAN, M. S. See GRABELSKY, D. A., et al. OSSE Observations of GX 339−4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

STURROCK, P. A. Asymptotic Analysis of Force-free Magnetic Fields of Cylindrical Symmetry. *P. A. Sturrock, S. K. Antiochos, & G. Roumeliotis.* 443, 804, 109-A1 (1995)

SUDAN, R. N. Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

SUESS, S. T. On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

SUGAI, HAJIME. Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

SUKHANOV, K. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

SUNYAEV, R. See VIKHLININ, A., et al. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results.

See CHURAZOV, E., et al. Detection of the A1742−294 X-Ray Burster above 35 keV.

SUTMANN, G. Generation of Mass Loss in K Giants: The Failure of Global Oscillation Modes and Possible Implications. *G. Sutmann & M. Cuntz.* 442, L61, 94-E7 (1995)

SUZUKI, Y. A Solar Flare Triggering Mechanism Based on the Woltjer-Taylor Minimum Energy Principle. *K. Kusano, Y. Suzuki, & K. Nishikawa.* 441, 942, 74-G9 (1995)

TAAM, RONALD E. Variability of Accretion Disks Surrounding Black Holes: The Role of Inertial-Acoustic Mode Instabilities. *Xingming Chen & Ronald E. Taam.* 441, 354, 64-C2 (1995)

TAFALLA, M. Ammonia Emission from Bow Shocks in the L1157 Outflow. *M. Tafalla & R. Bachiller.* 443, L37, 102-G4 (1995)

TAGLIAFERRI, G. *ROSAT* Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

TAKAGI, KOJIRO. Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

TANAKA, MASUO. Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

TANG, J. K. K. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

TANZI, E. G. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

TAO, L. On the Spatial Distribution of Magnetic Fields on the Solar Surface. *L. Tao, Y. Du, R. Rosner, & F. Cattaneo.* 443, 434, 101-A12 (1995)

TAVANI, M. X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

TAYLOR, A. R. The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

TAYLOR, J. H. PSR J2019+2425 and PSR J2322+2057 and the Proper Motions of Millisecond Pulsars. *D. J. Nice & J. H. Taylor.* 441, 429, 65-C7 (1995)

TAYLOR, M. J. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

TEGMARK, MAX. Reionization in an Open Cold Dark Matter Universe: Implications for Cosmic Microwave Background Fluctuations. *Max Tegmark & Joseph Silk.* 441, 458, 68-C13 (1995)

TERLEVICH, ELENA. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

TERLEVICH, ROBERTO. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

TERZIAN, YERVANT. Combinatorics and Companion Galaxies: Paradox Lost. *William I. Newman & Yervant Terzian.* 441, 505, 69-A8 (1995)

TEUKOLSKY, SAUL A. Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

THOMAS, S. B. See BIRD, D. J., et al. Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation.

THOMPSON, D. J. On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

THOMPSON, MICHAEL J. Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

THOMPSON, R. W. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

THORSETT, S. E. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

THOUL, ANNE A. Hydrodynamic Simulations of Galaxy Formation. I. Dissipation and the Maximum Mass of Galaxies. *Anne A. Thoul & David H. Weinberg.* 442, 480, 86-E5 (1995)

THUAN, TRINH X. The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

TIELENS, A. G. G. M. The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)

TITLE, A. M. Kinematic Models of Supergranular Diffusion on the Sun. *G. W. Simon, A. M. Title, & N. O. Weiss.* 442, 886, 92-D2 (1995)

TOHLINE, JOEL E. A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

TONRY, JOHN L. Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

TORMEN, GIUSEPPE. Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

TORRELLES, J. M. The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

TORRES-PEIMBERT, S. Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

TORRES-PEIMBERT, SILVIA. The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

TREMBLAY, BENOIT. Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

TREVES, A. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey. *A. Treves, H. H. Fink, M. Malkan, S. J. Wagner, B. J. Wilkes, F. Baganoff, J. Heidt, E. Pian, A. Sadun, S. Schaeidt, J. T. Bonnell, W. Brinkmann, D. de Martino, L. Maraschi, E. G. Tanzi, M. H. Ulrich, & W. Wamsteker.* 442, 589, 88-A9 (1995)

ROSAT Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

TROLAND, T. H. The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)

TSUNEKAWA, SHOZO. Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

TUELLER, J. See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

TURNSHEK, DAVID A. On Observational Constraints on the Shapes of the Dark Matter Density and Temperature Distributions in the Model of Dark Matter–confined Lyα Clouds. *Valery K. Khersonsky & David A. Turnshek.* 442, 76, 78-C2 (1995)

TWEEDY, R. W. BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

TYSON, J. ANTHONY. A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

TYTLER, DAVID. The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

UGARTE, DANIEL. Interstellar Graphitic Particles Generated by Annealing of Nanodiamonds and Their Relation to the 2175 Å Peak Carrier. *Daniel Ugarte.* 443, L85, 112-B4 (1995)

UGRYUMOV, ANDREI V. The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

ULMER, ANDREW. Femtolensing: Beyond the Semiclassical Approximation. *Andrew Ulmer & Jeremy Goodman.* 442, 67, 78-B4 (1995)

ULMER, M. P. See GRABELSKY, D. A., et al. OSSE Observations of GX 339−4.

See SMITH, D. M., et al. Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE.

ULRICH, M. H. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

UNWIN, STEPHEN C. The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

USUDA, TOMONORI. Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

VALLERGA, J. V. First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

VAL'TTS, I. E. Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)

VAN CITTERS, G. W. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

VANCURA, O. Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

VAN DER MAREL, R. P. Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

VAN DISHOECK, EWINE F. A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

Large HCO$^+$ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

VAN DYK, SCHUYLER D. The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

VANGIONI-FLAM, ELISABETH. Cosmological and Astrophysical Consequences of a High Primordial Deuterium Abundance. *Elisabeth Vangioni-Flam & Michel Cassé.* 441, 471, 68-E4 (1995)

VAN GORKOM, J. H. Detection of an H I Disk in Hydra A? *K. S. Dwarakanath, F. N. Owen, & J. H. van Gorkom.* 442, L1, 84-D1 (1995)

VAN HORN, H. M. Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

VAN LANGEVELDE, HUIB JAN. Large HCO$^+$ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

VASISHT, GAUTAM. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

VÁZQUEZ-SEMADENI, ENRIQUE. A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

VIETRI, MARIO. Yet Another Theory for the Origin of Halo Globular Clusters and Spheroid Stars. *Mario Vietri & Enrico Pesce.* 442, 618, 88-D8 (1995)

VIKHLININ, A. Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results. *A. Vikhlinin, E. Churazov, M. Gilfanov, R. Sunyaev, A. Finoguenov, A. Dyachkov, R. Kremnev, K. Sukhanov, J. Ballet, A. Goldwurm, B. Cordier, A. Claret, M. Denis, J. F. Olive, J. P. Roques, & P. Mandrou.* 441, 779, 72-F7 (1995)

VILLELA, THYRSO. Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

VISHNIAC, ETHAN. Bayesian Approaches to Testing the Nature of Primordial Density Fluctuation. *Shan Luo & Ethan Vishniac.* 443, 469, 104-D1 (1995)

VOGEL, STUART N. New Upper Limits on the Local Metagalactic Ionizing Radiation Density. *Stuart N. Vogel, Ray Weymann, Michael Rauch, & Tom Hamilton.* 441, 162, 61-E10 (1995)

VON MONTIGNY, C. See LIN, Y. C., et al. EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365.

WAGNER, R. M. See BARON, E., et al. Non-LTE Spectral Analysis and Model Constraints on SN 1993J.

WAGNER, S. J. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

WALKER, CHRISTOPHER K. The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

WALLINGTON, SYLVANIE. Gravitational Lens Inversions of Cl 0024+1654. *Sylvanie Wallington, Christopher S. Kochanek, & David C. Koo.* 441, 58, 60-B5 (1995)

WAMPLER, E. JOSEPH. The Absorption Spectrum of Nuclear Gas in Q0059−2735. *E. Joseph Wampler, Nikolai N. Chugai, & Patrick Petitjean.* 443, 586, 106-A4 (1995)

WAMSTEKER, W. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

WANDEL, AMRI. Turbulent Convection in Thin Accretion Disks. *Itzhak Goldman & Amri Wandel.* 443, 187, 97-F6 (1995)

WANG, NING. Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)

WANG, V. C. Repeating Sources of Classical Gamma-Ray Bursts. *V. C. Wang & R. E. Lingenfelter.* 441, 747, 72-C1 (1995)

WANNIER, PETER G. The Magnetic Field in Lynds 1457: Multiband Photopolarimetry. *B-G Andersson & Peter G. Wannier.* 443, L49, 103-B2 (1995)

WARDLE, MARK. Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

WASSERBURG, G. J. Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

WATSON, R. A. Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

WEAVER, K. A. The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

WEBB, G. M. Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

WEBB, JOHN K. The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

WEBBER, W. R. An Estimate of the Location of the Modulation Boundary for $E > 70$ MeV Galactic Cosmic Rays Using *Voyager* and *Pioneer* Spacecraft Data. *J. A. Lockwood & W. R. Webber.* 442, 852, 91-G12 (1995)

WEFEL, JOHN P. The ^{3}He/^{4}He Ratios for Solar Energetic Particle Events during the *Combined Release and Radiation Effects Satellite* Mission. *Jiasheng Chen, T. Gregory Guzik, & John P. Wefel.* 442, 875, 92-C1 (1995)

WEILAND, JANET L. See SPIESMAN, WILLIAM J., et al. Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment.

WEILER, KURT W. The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

WEINBERG, DAVID H. Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

Physically Detached "Compact Groups." *Lars Hernquist, Neal Katz, & David H. Weinberg.* 442, 57, 78-A3 (1995)

Hydrodynamic Simulations of Galaxy Formation. I. Dissipation and the Maximum Mass of Galaxies. *Anne A. Thoul & David H. Weinberg.* 442, 480, 86-E5 (1995)

WEISBERG, J. M. H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

WEISS, N. O. Kinematic Models of Supergranular Diffusion on the Sun. *G. W. Simon, A. M. Title, & N. O. Weiss.* 442, 886, 92-D2 (1995)

WESEMAEL, F. Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

WEYMANN, RAY. New Upper Limits on the Local Metagalactic Ionizing Radiation Density. *Stuart N. Vogel, Ray Weymann, Michael Rauch, & Tom Hamilton.* 441, 162, 61-E10 (1995)

WHITE, MARTIN. The *COBE* Normalization for Standard Cold Dark Matter. *Emory F. Bunn, Douglas Scott, & Martin White.* 441, L9, 66-D4 (1995)

Window Functions for Cosmic Microwave Background Experiments. *Martin White & Mark Srednicki.* 443, 6, 95-C9 (1995)

A First Map of the Cosmic Microwave Background at 0.5° Resolution. *Martin White & Emory F. Bunn.* 443, L53, 111-D1 (1995)

WHITE, O. R. The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

WHITE, S. M. Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

WHITNEY, BARBARA A. Polarization from Scattering in Blobs. *Arthur D. Code & Barbara A. Whitney.* 441, 400, 64-G4 (1995)

WIDING, K. G. Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

WIDING, KENNETH G. Stellar Coronal Abundances. II. The First Ionization Potential Effect and Its Absence in the Corona of Procyon. *Jeremy J. Drake, J. Martin Laming, & Kenneth G. Widing.* 443, 393, 100-E2 (1995)

Stellar Coronal Abundances. III. The Solar First Ionization Potential Effect Determined from Full-Disk Observation. *J. Martin Laming, Jeremy J. Drake, & Kenneth G. Widing.* 443, 416, 100-G2 (1995)

WIDROW, LAWRENCE M. Hydrogen Clouds and the MACHO/EROS Events. *Richard N. Henriksen & Lawrence M. Widrow.* 441, 70, 60-C8 (1995)

WILKES, B. J. See TREVES, A., et al. Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey.

WILLIAMS, L. L. A Model of the Proton Heat Flux Appropriate for Collisionless Plasmas: Erratum. *L. L. Williams.* 442, L73, 94-G3 (1995) (Orig. paper in 424, L143, 79-G3 (1994))

WILLIAMS, RICHARD M. Laboratory Studies of 3.3 Micron Emission from Naphthalene Induced by 193 and 248 Nanometer Excitation. *Richard M. Williams & Stephen R. Leone.* 443, 675, 107-B13 (1995)

WILLIAMS, T. B. Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

WILNER, DAVID J. Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

WILSON, A. S. The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

WILSON, ANDREW S. The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

WILSON, W. H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

WING, ROBERT F. See JOHNSON, HOLLIS R., et al. Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*.

WINKLER, P. FRANK. *ROSAT* Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

WITT, HANS J. On the Universality of Microlensing in Quadruple Gravitational Lenses. *Hans J. Witt, Shude Mao, & Paul L. Schechter.* 443, 18, 95-D13 (1995)

WOLF-CHASE, GRACE A. The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

WOLFF, CHARLES L. Oscillation-Convection Coupling: Cause of Supergranulation? *Charles L. Wolff.* 443, 423, 100-G12 (1995)

WOLFIRE, MARK G. The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)

WOLFSON, RICHARD. Shear-induced Opening of the Coronal Magnetic Field. *Richard Wolfson.* 443, 810, 109-A11 (1995)

WOLINSKI, K. G. See DOLAN, J. F., et al. The Gravitational Lens System Q0957+561 in the Ultraviolet.

WOLSZCZAN, A. See RAY, PAUL S., et al. Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo.

WOOD, BRIAN E. The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

A Reanalysis of the SWP-HI *IUE* Observations of Capella. *Brian E. Wood & Thomas R. Ayres.* 443, 329, 99-F7 (1995)

WOOD, JANET H. See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

WOOD, KENNETH. Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

WOOD, M. A. Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

WOODS, THOMAS N. The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

WOODWARD, PAUL R. Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

WU, XINJI. Temporal Variation of Pulsar Dispersion Measure. *Xinji Wu & Abraham C.-L. Chian.* 443, 261, 98-G1 (1995)

WU, XUE-BING. The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

WUENSCHE, C. A. See GUNDERSEN, J. O., et al. Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results.

XU, HAIGUANG. Calculations on the Structure and Corresponding Permitted Spontaneous Transitions for the Low-lying States of Fe^{+24} and Fe^{+25}. *Haiguang Xu, Shiwei Zhang, Junfeng Chen, & Junhan You.* 441, 443, 65-E1 (1995)

YACHI, YASUNORI. Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)

YAMASHITA, AKIHIRO. Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)

YANG, LAN-TIAN. The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

YANNY, BRIAN. Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

YI, INSU. Magnetized Accretion and Spin Evolution in Classical T Tauri Stars. *Insu Yi.* 442, 768, 90-G2 (1995)

Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

YORKE, HAROLD W. The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

YOSHII, YUZURU. A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

YOU, JUNHAN. Calculations on the Structure and Corresponding Permitted Spontaneous Transitions for the Low-lying States of Fe^{+24} and Fe^{+25}. *Haiguang Xu, Shiwei Zhang, Junfeng Chen, & Junhan You.* 441, 443, 65-E1 (1995)

YOUNG, E. J. Postaccretion Magnetic Field Evolution of Neutron Stars. *E. J. Young & G. Chanmugam.* 442, L53, 94-D3 (1995)

YUSEF-ZADEH, FARHAD. H110α Observations of Sagittarius A West: Ionized Gas at Peculiar Velocities at the Galactic Center. *Farhad Yusef-Zadeh, Jun-Hui Zhao, & W. M. Goss.* 442, 646, 88-G9 (1995)

ZANK, G. P. Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

ZENSUS, J. ANTON. The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

ZEPF, STEPHEN E. Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

ZHANG, E. See ROBINSON, E. L., et al. *Hubble Space Telescope* Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles.

ZHANG, SHIWEI. Calculations on the Structure and Corresponding Permitted Spontaneous Transitions for the Low-lying States of Fe^{+24} and Fe^{+25}. *Haiguang Xu, Shiwei Zhang, Junfeng Chen, & Junhan You.* 441, 443, 65-E1 (1995)

ZHAO, JUN-HUI. H110α Observations of Sagittarius A West: Ionized Gas at Peculiar Velocities at the Galactic Center. *Farhad Yusef-Zadeh, Jun-Hui Zhao, & W. M. Goss.* 442, 646, 88-G9 (1995)

ZHAO, PING. See CALLANAN, PAUL J., et al. Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence.

ZHAO, YONG-HENG. The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

ZHENG, CHUNGUANG. Rototranslational Collision-induced Absorption by H_2–H_2 Pairs at Temperatures from 600 to 7000 K. *Chunguang Zheng & Aleksandra Borysow.* 441, 960, 75-B6 (1995)

ZHOU, SHUDONG. Line Formation in Collapsing Cloud Cores with Rotation and Applications to B335 and IRAS 16293–2422. *Shudong Zhou.* 442, 685, 89-E11 (1995)

SUBJECT INDEX

PARTS 1 & 2, VOLUMES 441 –443

1995 MARCH 1 TO APRIL 20

ACCELERATION OF PARTICLES

Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of Mercury. *William H. Smyth & M. L. Marconi.* 441, 839, 73-E12 (1995)

Energetic Proton Heating of Gas in the Core of the Perseus Cluster. *Yoel Rephaeli & Joseph Silk.* 442, 91, 78-D13 (1995)

Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

The Simulation of Complete 11 and 22 Year Modulation Cycles for Cosmic Rays in the Heliosphere Using a Drift Model with Global Merged Interaction Regions. *J. A. le Roux & M. S. Potgieter.* 442, 847, 91-G3 (1995)

Effect of Adiabatic Deceleration on the Focused Transport of Solar Cosmic Rays. *D. Ruffolo.* 442, 861, 92-A12 (1995)

Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations. *B. Klecker, M. C. McNab, J. B. Blake, D. C. Hamilton, D. Hovestadt, H. Kästle, M. D. Looper, G. M. Mason, J. E. Mazur, & M. Scholer.* 442, L69, 94-F9 (1995)

A Unified Picture for High-Energy Emission in Spin-powered Pulsars. *T. Kamae & Y. Sekimoto.* 443, 780, 108-E7 (1995)

Directivity and Its Energy Dependence in Solar Flare Energetic Emission. *Peng Li.* 443, 855, 109-F1 (1995)

ACCRETION, ACCRETION DISKS

Variability of Accretion Disks Surrounding Black Holes: The Role of Inertial-Acoustic Mode Instabilities. *Xingming Chen & Ronald E. Taam.* 441, 354, 64-C2 (1995)

Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

Velocity Profile of the Ionized Disk and the Mass of the Black Hole in M87. *Sandip K. Chakrabarti.* 441, 576, 70-A6 (1995)

Optically Thin Accretion Disks in the Kerr Metric. *Gunnlaugur Björnsson.* 441, 765, 72-D12 (1995)

Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence. *Paul J. Callanan, Michael R. Garcia, Jeffrey E. McClintock, Ping Zhao, Ronald A. Remillard, Charles D. Bailyn, Jerome A. Orosz, B. Alan Harmon, & William S. Paciesas.* 441, 786, 72-G3 (1995)

The Transient Accretion Disk in the Algol-Type Binary U Sagittae. *Geary E. Albright & Mercedes T. Richards.* 441, 806, 73-B2 (1995)

Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

Magnetized Accretion and Spin Evolution in Classical T Tauri Stars. *Insu Yi.* 442, 768, 90-G2 (1995)

Postaccretion Magnetic Field Evolution of Neutron Stars. *E. J. Young & G. Chanmugam.* 442, L53, 94-D3 (1995)

Variability Spectra of Orbiting Blobs around a Black Hole. *G. Bao & E. Østgaard.* 443, 54, 96-A4 (1995)

Turbulent Convection in Thin Accretion Disks. *Itzhak Goldman & Amri Wandel.* 443, 187, 97-F6 (1995)

The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

Hubble Space Telescope Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles. *E. L. Robinson, Janet H. Wood, R. C. Bless, J. C. Clemens, J. F. Dolan, J. L. Elliot, M. J. Nelson, J. W. Percival, M. J. Taylor, G. W. van Citters, & E. Zhang.* 443, 295, 99-C9 (1995)

The Effects of Redshifts and Focusing on the Spectrum of an Accretion Disk in the Galactic Center Black Hole Candidate Sagittarius A*. *J. M. Hollywood & Fulvio Melia.* 443, L17, 102-D6 (1995)

Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

ASTROMETRY

MACHO Parallaxes from a Single Satellite. *Andrew Gould.* 441, L21, 66-F1 (1995)

ATMOSPHERIC EFFECTS

Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of the Moon. *William H. Smyth & M. L. Marconi.* 443, 371, 100-C4 (1995)

ATOMIC DATA

Calculations on the Structure and Corresponding Permitted Spontaneous Transitions for the Low-lying States of Fe^{+24} and Fe^{+25}. *Haiguang Xu, Shiwei Zhang, Junfeng Chen, & Junhan You.* 441, 443, 65-E1 (1995)

Atomic Iron in Its ^5D Ground State: A Direct Measurement of the $J = 0 \leftarrow 1$ and $J = 1 \leftarrow 2$ Fine-Structure Intervals. *John M. Brown & Kenneth M. Evenson.* 441, L97, 76-D11 (1995)

Discrepancies between OPAL and OP Opacities at High Densities and Temperatures. *Carlos A. Iglesias & Forrest J. Rogers.* 443, 460, 101-D6 (1995)

ATOMIC PROCESSES

Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

Collisional Effects in He I: An Observational Analysis. *J. Kingdon & G. J. Ferland.* 442, 714, 90-A8 (1995)

Stellar Coronal Abundances. III. The Solar First Ionization Potential Effect Determined from Full-Disk Observation. *J. Martin Laming, Jeremy J. Drake, & Kenneth G. Widing.* 443, 416, 100-G2 (1995)

Discrepancies between OPAL and OP Opacities at High Densities and Temperatures. *Carlos A. Iglesias & Forrest J. Rogers.* 443, 460, 101-D6 (1995)

High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

BLACK HOLE PHYSICS

Variability of Accretion Disks Surrounding Black Holes: The Role of Inertial-Acoustic Mode Instabilities. *Xingming Chen & Ronald E. Taam.* 441, 354, 64-C2 (1995)

Velocity Profile of the Ionized Disk and the Mass of the Black Hole in M87. *Sandip K. Chakrabarti.* 441, 576, 70-A6 (1995)

Optically Thin Accretion Disks in the Kerr Metric. *Gunnlaugur Björnsson.* 441, 765, 72-D12 (1995)

Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

On the Nature of the Binary Radio Pulsar PSR B0042−73 in the Small Magellanic Cloud. *V. M. Lipunov, K. A. Postnov, & M. E. Prokhorov.* 441, 776, 72-F1 (1995)

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

Origin of Quasar Progenitors from the Collapse of Low-Spin Cosmological Perturbations. *Daniel J. Eisenstein & Abraham Loeb.* 443, 11, 95-D3 (1995)

Variability Spectra of Orbiting Blobs around a Black Hole. *G. Bao & E. Østgaard.* 443, 54, 96-A4 (1995)

The Effects of Redshifts and Focusing on the Spectrum of an Accretion Disk in the Galactic Center Black Hole Candidate Sagittarius A*. *J. M. Hollywood & Fulvio Melia.* 443, L17, 102-D6 (1995)

Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

CELESTIAL MECHANICS, STELLAR DYNAMICS

Influence of the Stellar Mass Function on the Evaporation Rate of Tidally Limited Postcollapse Globular Clusters. *Hyung Mok Lee & Jeremy Goodman.* 443, 109, 96-F4 (1995)

Building a Better Leapfrog. *Piet Hut, Jun Makino, & Steve McMillan.* 443, L93, 112-C5 (1995)

COMETS: INDIVIDUAL

Name: Shoemaker-Levy/9

Excitation of Low-Order Jovian *p*-Modes by Cometary Impacts. *Andrew J. Dombard & Stephen P. Boughn.* 443, L89, 112-B11 (1995)

CONVECTION

Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

Magnetoconvection Dynamics in a Stratified Layer. II. A Low-Order Model of the Tilting Instability. *Steven R. Lantz.* 441, 925, 74-F2 (1995)

Theoretical Properties of Ω-Loops in the Convective Zone of the Sun. III. Extended Updrafts. *E. N. Parker.* 442, 405, 82-E8 (1995)

Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

Turbulent Convection in Thin Accretion Disks. *Itzhak Goldman & Amri Wandel.* 443, 187, 97-F6 (1995)

Oscillation-Convection Coupling: Cause of Supergranulation? *Charles L. Wolff.* 443, 423, 100-G12 (1995)

On the Nature of "Exploding" Granules and Granule Fragmentation. *Mark Peter Rast.* 443, 863, 109-F12 (1995)

COSMIC STRINGS

In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

COSMOLOGY: COSMIC MICROWAVE BACKGROUND

Reionization and the Cosmic Microwave Background in an Open Universe. *Fred M. Persi.* 441, 1, 59-C1 (1995)

Cyanogen Excitation in Diffuse Interstellar Clouds. *Katherine C. Roth & David M. Meyer.* 441, 129, 61-B7 (1995)

Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation. *D. J. Bird, S. C. Corbató, H. Y. Dai, J. W. Elbert, K. D. Green, M. A. Huang, D. B. Kieda, S. Ko, C. G. Larsen, E. C. Loh, M. Z. Luo, M. H. Salamon, J. D. Smith, P. Sokolsky, P. Sommers, J. K. K. Tang, & S. B. Thomas.* 441, 144, 61-C12 (1995)

Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Basic Results. *G. Hinshaw, C. L. Bennett, & A. Kogut.* 441, L1, 66-C1 (1995)

Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Unresolved Features. *A. Kogut, G. Hinshaw, & C. L. Bennett.* 441, L5, 66-C10 (1995)

The *COBE* Normalization for Standard Cold Dark Matter. *Emory F. Bunn, Douglas Scott, & Martin White.* 441, L9, 66-D4 (1995)

Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

Influence of Galactic Dust on the Accuracy of Cosmic Microwave Anisotropy Measurements. *Gianfranco Guarini, Bianca Melchiorri, & Francesco Melchiorri.* 442, 23, 77-E1 (1995)

Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

Proving Almost-Homogeneity of the Universe: An Almost Ehlers-Geren-Sachs Theorem. *W. R. Stoeger, R. Maartens, & G. F. R. Ellis.* 443, 1, 95-C1 (1995)

Window Functions for Cosmic Microwave Background Experiments. *Martin White & Mark Srednicki.* 443, 6, 95-C9 (1995)

A First Map of the Cosmic Microwave Background at 0.5° Resolution. *Martin White & Emory F. Bunn.* 443, L53, 111-D1 (1995)

Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results. *J. O. Gundersen, M. Lim, J. Staren, C. A. Wuensche, N. Figueiredo, T. C. Gaier, T. Koch, P. R. Meinhold, M. D. Seiffert, G. Cook, A. Segale, & P. M. Lubin.* 443, L57, 111-D10 (1995)

COSMOLOGY: DARK MATTER

Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

Hydrogen Clouds and the MACHO/EROS Events. *Richard N. Henriksen & Lawrence M. Widrow.* 441, 70, 60-C8 (1995)

Self-Lensing by a Stellar Disk. *Andrew Gould.* 441, 77, 60-D5 (1995)

MACHO Parallaxes from a Single Satellite. *Andrew Gould.* 441, L21, 66-F1 (1995)

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

Reionization in an Open Cold Dark Matter Universe: Implications for Cosmic Microwave Background Fluctuations. *Max Tegmark & Joseph Silk.* 441, 458, 68-C13 (1995)

Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

Femtolensing: Beyond the Semiclassical Approximation. *Andrew Ulmer & Jeremy Goodman.* 442, 67, 78-B4 (1995)

On Observational Constraints on the Shapes of the Dark Matter Density and Temperature Distributions in the Model of Dark Matter–confined Lyα Clouds. *Valery K. Khersonsky & David A. Turnshek.* 442, 76, 78-C2 (1995)

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

The Least-Action Method, Cold Dark Matter, and Ω. *A. M. Dunn & R. Laflamme.* 443, L1, 102-B1 (1995)

Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

Properties of the Cosmological Density Distribution Function. *Francis Bernardeau & Lev Kofman.* 443, 479, 104-F1 (1995)

COSMOLOGY: DIFFUSE RADIATION

New Upper Limits on the Local Metagalactic Ionizing Radiation Density. *Stuart N. Vogel, Ray Weymann, Michael Rauch, & Tom Hamilton.* 441, 162, 61-E10 (1995)

First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

ROSAT Observations of Compact Groups of Galaxies. *Rachel A. Pildis, Joel N. Bregman, & August E. Evrard.* 443, 514, 105-A1 (1995)

COSMOLOGY: DISTANCE SCALE

Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

COSMOLOGY: EARLY UNIVERSE

Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

COSMOLOGY: GRAVITATIONAL LENSING

Gravitational Lens Inversions of Cl 0024+1654. *Sylvanie Wallington, Christopher S. Kochanek, & David C. Koo.* 441, 58, 60-B5 (1995)

Hydrogen Clouds and the MACHO/EROS Events. *Richard N. Henriksen & Lawrence M. Widrow.* 441, 70, 60-C8 (1995)

Self-Lensing by a Stellar Disk. *Andrew Gould.* 441, 77, 60-D5 (1995)

MACHO Parallaxes from a Single Satellite. *Andrew Gould.* 441, L21, 66-F1 (1995)

Magnitude Offset between Lensed Stars and Observed Stars: A New Probe of the Structure of the Galactic Bar. *K. Z. Stanek.* 441, L29, 66-G3 (1995)

Femtolensing: Beyond the Semiclassical Approximation. *Andrew Ulmer & Jeremy Goodman.* 442, 67, 78-B4 (1995)

The Gravitational Lens System Q0957+561 in the Ultraviolet. *J. F. Dolan, A. G. Michalitsianos, R. W. Thompson, P. T. Boyd, K. G. Wolinski, R. C. Bless, M. J. Nelson, J. W. Percival, M. J. Taylor, J. L. Elliot, & G. W. van Citters.* 442, 87, 78-D5 (1995)

Microlensing by Stars. *Marc Kamionkowski.* 442, L9, 84-E5 (1995)

On the Universality of Microlensing in Quadruple Gravitational Lenses. *Hans J. Witt, Shude Mao, & Paul L. Schechter.* 443, 18, 95-D13 (1995)

COSMOLOGY: LARGE-SCALE STRUCTURE OF UNIVERSE

The *COBE* Normalization for Standard Cold Dark Matter. *Emory F. Bunn, Douglas Scott, & Martin White.* 441, L9, 66-D4 (1995)

Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

Reionization in an Open Cold Dark Matter Universe: Implications for Cosmic Microwave Background Fluctuations. *Max Tegmark & Joseph Silk.* 441, 458, 68-C13 (1995)

Moments of the Cluster Distribution as a Test of Dark Matter Models. *Manolis Plionis, Stefano Borgani, Lauro Moscardini, & Peter Coles.* 441, L57, 75-F6 (1995)

Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

Dynamics of Gravitational Instability Is Nonlocal. *Lev Kofman & Dmitry Pogosyan.* 442, 30, 77-E12 (1995)

Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

Bayesian Approaches to Testing the Nature of Primordial Density Fluctuation. *Shan Luo & Ethan Vishniac.* 443, 469, 104-D1 (1995)

Properties of the Cosmological Density Distribution Function. *Francis Bernardeau & Lev Kofman.* 443, 479, 104-F1 (1995)

COSMOLOGY: OBSERVATIONS

Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

Simulated Cosmic Microwave Background Maps at 0.5° Resolution: Basic Results. *G. Hinshaw, C. L. Bennett, & A. Kogut.* 441, L1, 66-C1 (1995)

Hubble Space Telescope Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

Dual-Frequency Mapping with the Tenerife Cosmic Microwave Background Experiments. *C. M. Gutiérrez de la Cruz, R. D. Davies, R. Rebolo, R. A. Watson, S. Hancock, & A. N. Lasenby.* 442, 10, 77-C13 (1995)

Degree-Scale Anisotropy in the Cosmic Microwave Background: SP94 Results. *J. O. Gundersen, M. Lim, J. Staren, C. A. Wuensche, N. Figueiredo, T. C. Gaier, T. Koch, P. R. Meinhold, M. D. Seiffert, G. Cook, A. Segale, & P. M. Lubin.* 443, L57, 111-D10 (1995)

The Nature of the Stellar Continuum in the Radio Galaxy 3C 65. *Alan Stockton, Melinda Kellogg, & Susan E. Ridgway.* 443, L69, 111-F9 (1995)

COSMOLOGY: THEORY

Reionization and the Cosmic Microwave Background in an Open Universe. *Fred M. Persi.* 441, 1, 59-C1 (1995)

Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

Giant Branch Mixing and the Ultimate Fate of Primordial Deuterium in the Galaxy. *Craig J. Hogan.* 441, L17, 66-E7 (1995)

Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

Reionization in an Open Cold Dark Matter Universe: Implications for Cosmic Microwave Background Fluctuations. *Max Tegmark & Joseph Silk.* 441, 458, 68-C13 (1995)

Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

Cosmological and Astrophysical Consequences of a High Primordial Deuterium Abundance. *Elisabeth Vangioni-Flam & Michel Cassé.* 441, 471, 68-E4 (1995)

Observations in the Einstein–de Sitter Cosmology: Dust Statistics and Limits of Apparent Homogeneity. *Marcelo B. Ribeiro.* 441, 477, 68-E13 (1995)

The Quasar Distribution in a Static Universe. *David F. Crawford.* 441, 488, 68-F13 (1995)

The Tinsley Diagram Revisited. *Stephen Leonard & Kayll Lake.* 441, L55, 75-F1 (1995)

Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

Dynamics of Gravitational Instability Is Nonlocal. *Lev Kofman & Dmitry Pogosyan.* 442, 30, 77-E12 (1995)

Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

On Observational Constraints on the Shapes of the Dark Matter Density and Temperature Distributions in the Model of Dark Matter–confined Lyα Clouds. *Valery K. Khersonsky & David A. Turnshek.* 442, 76, 78-C2 (1995)

Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

Evidence for a Very Large Scale Fractal Structure in the Universe from *COBE* Measurements. *Elisabete M. de Gouveia Dal Pino, Annibal Hetem, Jorge E. Horvath, Carlos A. W. de Souza, Thyrso Villela, & J. C. N. de Araujo.* 442, L45, 94-C1 (1995)

Proving Almost-Homogeneity of the Universe: An Almost Ehlers-Geren-Sachs Theorem. *W. R. Stoeger, R. Maartens, & G. F. R. Ellis.* 443, 1, 95-C1 (1995)

Window Functions for Cosmic Microwave Background Experiments. *Martin White & Mark Srednicki.* 443, 6, 95-C9 (1995)

Origin of Quasar Progenitors from the Collapse of Low-Spin Cosmological Perturbations. *Daniel J. Eisenstein & Abraham Loeb.* 443, 11, 95-D3 (1995)

Properties of the Cosmological Density Distribution Function. *Francis Bernardeau & Lev Kofman.* 443, 479, 104-F1 (1995)

DENSE MATTER

Surface Temperature of a Magnetized Neutron Star and Interpretation of the *ROSAT* Data. I. Dipolar Fields. *Dany Page.* 442, 273, 81-A1 (1995)

Deviations from Chemical Equilibrium Due to Spin-down as an Internal Heat Source in Neutron Stars. *Andreas Reisenegger.* 442, 749, 90-E3 (1995)

DIFFUSION

Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

Momentum Deposition in Wolf-Rayet Winds: Nonisotropic Diffusion with Effectively Gray Opacity. *Kenneth G. Gayley, Stanley P. Owocki, & Steven R. Cranmer.* 442, 296, 81-C2 (1995)

Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

Kinematic Models of Supergranular Diffusion on the Sun. *G. W. Simon, A. M. Title, & N. O. Weiss.* 442, 886, 92-D2 (1995)

ELEMENTARY PARTICLES

Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation. *D. J. Bird, S. C. Corbató, H. Y. Dai, J. W. Elbert, K. D. Green, M. A. Huang, D. B. Kieda, S. Ko, C. G. Larsen, E. C. Loh, M. Z. Luo, M. H. Salamon, J. D. Smith, P. Sokolsky, P. Sommers, J. K. K. Tang, & S. B. Thomas.* 441, 144, 61-C12 (1995)

In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

Relativistic Hadrons and the Origin of Relativistic Outflows in Active Galactic Nuclei. *John Contopoulos & Demosthenes Kazanas.* 441, 521, 69-C2 (1995)

On Observational Constraints on the Shapes of the Dark Matter Density and Temperature Distributions in the Model of Dark Matter–confined Lyα Clouds. *Valery K. Khersonsky & David A. Turnshek.* 442, 76, 78-C2 (1995)

Galactic Evolution of D and ^{3}He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

EQUATION OF STATE

Deviations from Chemical Equilibrium Due to Spin-down as an Internal Heat Source in Neutron Stars. *Andreas Reisenegger.* 442, 749, 90-E3 (1995)

ERRATA, ADDENDA

X-Ray Emission of the Pulsar–Be Star Binary PSR 1259−63: Addendum. *Andrew King & Lynn Cominsky.* 442, 910, 92-F10 (1995) (Orig. paper in 435, 411, 249-B3 (1994))

High Rydberg State Carbon Recombination Lines toward Cassiopeia A: 332 MHz VLA Observations and Comparison with H I and Molecular Lines: Erratum. *K. R. Anantharamaiah, W. C. Erickson, H. E. Payne, & Nimisha G. Kantharia.* 442, 911, 92-G1 (1995) (Orig. paper in 430, 682, 170-C11 (1994))

Reconstructing the Primordial Spectrum of Fluctuations of the Universe from the Observed Nonlinear Clustering of Galaxies: Erratum. *A. J. S. Hamilton, P. Kumar, Edward Lu, & Alex Matthews.* 442, L73, 94-G3 (1995) (Orig. paper in 374, L1, 103-B7 (1991))

A Model of the Proton Heat Flux Appropriate for Collisionless Plasmas: Erratum. *L. L. Williams.* 442, L73, 94-G3 (1995) (Orig. paper in 424, L143, 79-G3 (1994))

GALAXIES: ABUNDANCES

The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

GALAXIES: ACTIVE

Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

Relativistic Hadrons and the Origin of Relativistic Outflows in Active Galactic Nuclei. *John Contopoulos & Demosthenes Kazanas.* 441, 521, 69-C2 (1995)

Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey. *A. Treves, H. H. Fink, M. Malkan, S. J. Wagner, B. J. Wilkes, F. Baganoff, J. Heidt, E. Pian, A. Sadun, S. Schaeidt, J. T. Bonnell, W. Brinkmann, D. de Martino, L. Maraschi, E. G. Tanzi, M. H. Ulrich, & W. Wamsteker.* 442, 589, 88-A9 (1995)

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

GALAXIES: BL LACERTAE OBJECTS: GENERAL

The Megaparsec-Scale Environments of BL Lacertae Objects. *Eric P. Smith, C. P. O'Dea, & S. A. Baum.* 441, 113, 60-G11 (1995)

ROSAT Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

GALAXIES: BL LACERTAE OBJECTS: INDIVIDUAL

Alphanumeric: 0521−365

EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365. *Y. C. Lin, D. L. Bertsch, B. L. Dingus, J. A. Esposito, C. E. Fichtel, R. C. Hartman, S. D. Hunter, G. Kanbach, D. A. Kniffen, H. A. Mayer-Hasselwander, P. F. Michelson, C. von Montigny, R. Mukherjee, P. L. Nolan, E. Schneid, P. Sreekumar, & D. J. Thompson.* 442, 96, 78-E7 (1995)

Alphanumeric: 0716+714

EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365. *Y. C. Lin, D. L. Bertsch, B. L. Dingus, J. A. Esposito, C. E. Fichtel, R. C. Hartman, S. D. Hunter, G. Kanbach, D. A. Kniffen, H. A. Mayer-Hasselwander, P. F. Michelson, C. von Montigny, R. Mukherjee, P. L. Nolan, E. Schneid, P. Sreekumar, & D. J. Thompson.* 442, 96, 78-E7 (1995)

Alphanumeric: PG 1424+240

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

Alphanumeric: PKS 0301−243

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

GALAXIES: CLUSTERING

Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

Physically Detached "Compact Groups." *Lars Hernquist, Neal Katz, & David H. Weinberg.* 442, 57, 78-A3 (1995)

The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

Testing the Velocity Field in Non–Scale-invariant Cold Dark Matter Models. *Lauro Moscardini, Giuseppe Tormen, Sabino Matarrese, & Francesco Lucchin.* 442, 469, 86-D3 (1995)

Bayesian Approaches to Testing the Nature of Primordial Density Fluctuation. *Shan Luo & Ethan Vishniac.* 443, 469, 104-D1 (1995)

The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

GALAXIES: CLUSTERS: GENERAL

Gravitational Lens Inversions of Cl 0024+1654. *Sylvanie Wallington, Christopher S. Kochanek, & David C. Koo.* 441, 58, 60-B5 (1995)

The Megaparsec-Scale Environments of BL Lacertae Objects. *Eric P. Smith, C. P. O'Dea, & S. A. Baum.* 441, 113, 60-G11 (1995)

Globular Cluster Systems in Three cD Galaxies within Rich Abell Clusters. *William E. Harris, Christopher J. Pritchet, & Robert D. McClure.* 441, 120, 61-A8 (1995)

Combinatorics and Companion Galaxies: Paradox Lost. *William I. Newman & Yervant Terzian.* 441, 505, 69-A8 (1995)

Moments of the Cluster Distribution as a Test of Dark Matter Models. *Manolis Plionis, Stefano Borgani, Lauro Moscardini, & Peter Coles.* 441, L57, 75-F6 (1995)

The Least-Action Method, Cold Dark Matter, and Ω. *A. M. Dunn & R. Laflamme.* 443, L1, 102-B1 (1995)

An X-Ray Temperature Map of Abell 754: A Major Merger. *J. Patrick Henry & Ulrich G. Briel.* 443, L9, 102-C1 (1995)

Properties of the Cosmological Density Distribution Function. *Francis Bernardeau & Lev Kofman.* 443, 479, 104-F1 (1995)

ROSAT Observations of Compact Groups of Galaxies. *Rachel A. Pildis, Joel N. Bregman, & August E. Evrard.* 443, 514, 105-A1 (1995)

GALAXIES: CLUSTERS: INDIVIDUAL

Name: Abell 754

An X-Ray Temperature Map of Abell 754: A Major Merger. *J. Patrick Henry & Ulrich G. Briel.* 443, L9, 102-C1 (1995)

Name: Coma

Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

Name: Hydra A

Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

Name: Perseus

Energetic Proton Heating of Gas in the Core of the Perseus Cluster. *Yoel Rephaeli & Joseph Silk.* 442, 91, 78-D13 (1995)

Name: Virgo

The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

Disk Galaxies near the Line of Sight to 3C 273 and Conjectures on Lyman-Alpha Absorption. *E. E. Salpeter & G. Lyle Hoffman.* 441, 51, 60-A7 (1995)

GALAXIES: COMPACT

The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

GALAXIES: COOLING FLOWS

ROSAT PSPC Observations of the Early-Type Galaxies NGC 507 and NGC 499: Central Cooling and Mass Determination. *Dong-Woo Kim & G. Fabbiano.* 441, 182, 61-G10 (1995)

Detection of an H I Disk in Hydra A? *K. S. Dwarakanath, F. N. Owen, & J. H. van Gorkom.* 442, L1, 84-D1 (1995)

Yet Another Theory for the Origin of Halo Globular Clusters and Spheroid Stars. *Mario Vietri & Enrico Pesce.* 442, 618, 88-D8 (1995)

Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

GALAXIES: DISTANCES AND REDSHIFTS

The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

Disk Galaxies near the Line of Sight to 3C 273 and Conjectures on Lyman-Alpha Absorption. *E. E. Salpeter & G. Lyle Hoffman.* 441, 51, 60-A7 (1995)

Non-LTE Spectral Analysis and Model Constraints on SN 1993J. *E. Baron, P. H. Hauschildt, D. Branch, S. Austin, P. Garnavich, Hong Bae Ann, R. M. Wagner, A. V. Filippenko, T. Matheson, & James Liebert.* 441, 170, 61-F8 (1995)

Hubble Space Telescope Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

Large-Scale Motions in the Universe: Using Clusters of Galaxies as Tracers. *Mirt Gramann, Neta A. Bahcall, Renyue Cen, & J. Richard Gott.* 441, 449, 68-C1 (1995)

A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

Combinatorics and Companion Galaxies: Paradox Lost. *William I. Newman & Yervant Terzian.* 441, 505, 69-A8 (1995)

The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

The Influence of Stellar Populations on Elliptical Galaxy Distance Estimates. *Michael D. Gregg.* 443, 527, 105-B4 (1995)

GALAXIES: ELLIPTICAL AND LENTICULAR, CD

Globular Cluster Systems in Three cD Galaxies within Rich Abell Clusters. *William E. Harris, Christopher J. Pritchet, & Robert D. McClure.* 441, 120, 61-A8 (1995)

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

The Influence of Stellar Populations on Elliptical Galaxy Distance Estimates. *Michael D. Gregg.* 443, 527, 105-B4 (1995)

Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

GALAXIES: EVOLUTION

Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

Cosmological and Astrophysical Consequences of a High Primordial Deuterium Abundance. *Elisabeth Vangioni-Flam & Michel Cassé.* 441, 471, 68-E4 (1995)

A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

Infrared Line Emission from High-Redshift Galaxies. I. Calculations. *Filippo Mannucci & Steven V. W. Beckwith.* 442, 569, 87-F8 (1995)

The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)

Galactic Evolution of D and ^{3}He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

GALAXIES: FORMATION

Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)

Hubble Space Telescope Imaging of a Radio-quiet Galaxy at Redshift z = 3.4. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

Hydrodynamic Simulations of Galaxy Formation. I. Dissipation and the Maximum Mass of Galaxies. *Anne A. Thoul & David H. Weinberg.* 442, 480, 86-E5 (1995)

The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)

The Least-Action Method, Cold Dark Matter, and Ω. *A. M. Dunn & R. Laflamme.* 443, L1, 102-B1 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

GALAXIES: FUNDAMENTAL PARAMETERS

Hubble Space Telescope Imaging of a Radio-quiet Galaxy at Redshift z = 3.4. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

The Luminosity Structure and Objective Classification of Galaxies. *Mingsheng Han.* 442, 504, 86-G12 (1995)

Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

GALAXIES: INDIVIDUAL

Messier Number: M33

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

Messier Number: M81

Non-LTE Spectral Analysis and Model Constraints on SN 1993J. *E. Baron, P. H. Hauschildt, D. Branch, S. Austin, P. Garnavich, Hong Bae Ann, R. M. Wagner, A. V. Filippenko, T. Matheson, & James Liebert.* 441, 170, 61-F8 (1995)

Messier Number: M87

Velocity Profile of the Ionized Disk and the Mass of the Black Hole in M87. *Sandip K. Chakrabarti.* 441, 576, 70-A6 (1995)

Messier Number: M100

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

NGC Number: NGC 499

ROSAT PSPC Observations of the Early-Type Galaxies NGC 507 and NGC 499: Central Cooling and Mass Determination. *Dong-Woo Kim & G. Fabbiano.* 441, 182, 61-G10 (1995)

NGC Number: NGC 507

ROSAT PSPC Observations of the Early-Type Galaxies NGC 507 and NGC 499: Central Cooling and Mass Determination. *Dong-Woo Kim & G. Fabbiano.* 441, 182, 61-G10 (1995)

NGC Number: NGC 1097

The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

NGC Number: NGC 1275

Energetic Proton Heating of Gas in the Core of the Perseus Cluster. *Yoel Rephaeli & Joseph Silk.* 442, 91, 78-D13 (1995)

NGC Number: NGC 1291

The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

NGC Number: NGC 2110

The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

NGC Number: NGC 2146

The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)

NGC Number: NGC 2434

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

NGC Number: NGC 2663

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

NGC Number: NGC 3384

Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

NGC Number: NGC 3628

The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

NGC Number: NGC 3706

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

NGC Number: NGC 3923

Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

NGC Number: NGC 4203

The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

NGC Number: NGC 4321

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

NGC Number: NGC 4526

Analysis of the Type Ia Supernova SN 1994D. *P. Höflich.* 443, 89, 96-D9 (1995)

NGC Number: NGC 4874

Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

NGC Number: NGC 4889

Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

NGC Number: NGC 5018

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

NGC Number: NGC 5746

Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

NGC Number: NGC 5965

Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

NGC Number: NGC 7479

An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

Name: Hydra A

Detection of an H I Disk in Hydra A? *K. S. Dwarakanath, F. N. Owen, & J. H. van Gorkom.* 442, L1, 84-D1 (1995)

Alphanumeric: FSC 10214+4724

Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

Alphanumeric: PKS 1055+018

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

GALAXIES: INTERACTIONS

On the Tidal Disruption of Dwarf Spheroidal Galaxies around the Galaxy. *K. S. Oh, D. N. C. Lin, & S. J. Aarseth.* 442, 142, 79-B9 (1995)

GALAXIES: INTERGALACTIC MEDIUM

Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

New Upper Limits on the Local Metagalactic Ionizing Radiation Density. *Stuart N. Vogel, Ray Weymann, Michael Rauch, & Tom Hamilton.* 441, 162, 61-E10 (1995)

Energetic Proton Heating of Gas in the Core of the Perseus Cluster. *Yoel Rephaeli & Joseph Silk.* 442, 91, 78-D13 (1995)

GALAXIES: ISM

The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)

The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

GALAXIES: JETS

Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

Relativistic Hadrons and the Origin of Relativistic Outflows in Active Galactic Nuclei. *John Contopoulos & Demosthenes Kazanas.* 441, 521, 69-C2 (1995)

Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

GALAXIES: KINEMATICS AND DYNAMICS

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

The Potential-Energy Tensors for Subsystems. III. Mass Distributions with Ellipsoidal and Confocal Strata. *R. Caimmi.* 441, 533, 69-D3 (1995)

An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)

Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

GALAXIES: LOCAL GROUP

Combinatorics and Companion Galaxies: Paradox Lost. *William I. Newman & Yervant Terzian.* 441, 505, 69-A8 (1995)

On the Tidal Disruption of Dwarf Spheroidal Galaxies around the Galaxy. *K. S. Oh, D. N. C. Lin, & S. J. Aarseth.* 442, 142, 79-B9 (1995)

The Least-Action Method, Cold Dark Matter, and Ω. *A. M. Dunn & R. Laflamme.* 443, L1, 102-B1 (1995)

GALAXIES: LUMINOSITY FUNCTION, MASS FUNCTION

The Quasar Distribution in a Static Universe. *David F. Crawford.* 441, 488, 68-F13 (1995)

GALAXIES: MAGELLANIC CLOUDS

Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

Interstellar Titanium in the Galactic Halo. *Keith Lipman & Max Pettini.* 442, 628, 88-E8 (1995)

GALAXIES: MAGNETIC FIELDS

In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

GALAXIES: NUCLEI

Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

Variability Spectra of Orbiting Blobs around a Black Hole. *G. Bao & E. Østgaard.* 443, 54, 96-A4 (1995)

The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

GALAXIES: PHOTOMETRY

Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

The Luminosity Structure and Objective Classification of Galaxies. *Mingsheng Han.* 442, 504, 86-G12 (1995)

Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

GALAXIES: QUASARS: ABSORPTION LINES

Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

Disk Galaxies near the Line of Sight to 3C 273 and Conjectures on Lyman-Alpha Absorption. *E. E. Salpeter & G. Lyle Hoffman.* 441, 51, 60-A7 (1995)

On Observational Constraints on the Shapes of the Dark Matter Density and Temperature Distributions in the Model of Dark Matter–confined Lyα Clouds. *Valery K. Khersonsky & David A. Turnshek.* 442, 76, 78-C2 (1995)

The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

The Absorption Spectrum of Nuclear Gas in Q0059−2735. *E. Joseph Wampler, Nikolai N. Chugai, & Patrick Petitjean.* 443, 586, 106-A4 (1995)

Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

GALAXIES: QUASARS: EMISSION LINES

Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

GALAXIES: QUASARS: GENERAL

Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

The Quasar Distribution in a Static Universe. *David F. Crawford.* 441, 488, 68-F13 (1995)

Origin of Quasar Progenitors from the Collapse of Low-Spin Cosmological Perturbations. *Daniel J. Eisenstein & Abraham Loeb.* 443, 11, 95-D3 (1995)

On the Universality of Microlensing in Quadruple Gravitational Lenses. *Hans J. Witt, Shude Mao, & Paul L. Schechter.* 443, 18, 95-D13 (1995)

GALAXIES: QUASARS: INDIVIDUAL

Name: Kaz 102

Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey. *A. Treves, H. H. Fink, M. Malkan, S. J. Wagner, B. J. Wilkes, F. Baganoff, J. Heidt, E. Pian, A. Sadun, S. Schaeidt, J. T. Bonnell, W. Brinkmann, D. de Martino, L. Maraschi, E. G. Tanzi, M. H. Ulrich, & W. Wamsteker.* 442, 589, 88-A9 (1995)

Alphanumeric: 0957+561

The Gravitational Lens System Q0957+561 in the Ultraviolet. *J. F. Dolan, A. G. Michalitsianos, R. W. Thompson, P. T. Boyd, K. G. Wolinski, R. C. Bless, M. J. Nelson, J. W. Percival, M. J. Taylor, J. L. Elliot, & G. W. van Citters.* 442, 87, 78-D5 (1995)

Alphanumeric: 3C 345

The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

Alphanumeric: MG 0414+0534

On the Universality of Microlensing in Quadruple Gravitational Lenses. *Hans J. Witt, Shude Mao, & Paul L. Schechter.* 443, 18, 95-D13 (1995)

Alphanumeric: PKS 1034−293

ROSAT Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

Alphanumeric: PKS 1335−127

ROSAT Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

Alphanumeric: Q0059−2735

The Absorption Spectrum of Nuclear Gas in Q0059−2735. *E. Joseph Wampler, Nikolai N. Chugai, & Patrick Petitjean.* 443, 586, 106-A4 (1995)

Alphanumeric: UM 675

Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

GALAXIES: SEYFERT

Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

Optically Thin Broad-Line Clouds in Active Galactic Nuclei. *Joseph C. Shields, Gary J. Ferland, & Bradley M. Peterson.* 441, 507, 69-A13 (1995)

The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

Near-Infrared and Optical Spectroscopy of FSC 10214+4724. *B. T. Soifer, J. G. Cohen, L. Armus, K. Matthews, G. Neugebauer, & J. B. Oke.* 443, L65, 111-F1 (1995)

GALAXIES: SPIRAL

The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)

Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

GALAXIES: STARBURST

Hubble Space Telescope Imaging of a Radio-quiet Galaxy at Redshift $z = 3.4$. *Mauro Giavalisco, F. Duccio Macchetto, Piero Madau, & William B. Sparks.* 441, L13, 66-D12 (1995)

The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

GALAXIES: STAR CLUSTERS

Globular Cluster Systems in Three cD Galaxies within Rich Abell Clusters. *William E. Harris, Christopher J. Pritchet, & Robert D. McClure.* 441, 120, 61-A8 (1995)

Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters. *Stephen E. Zepf, Keith M. Ashman, & Doug Geisler.* 443, 570, 105-F7 (1995)

Building a Better Leapfrog. *Piet Hut, Jun Makino, & Steve McMillan.* 443, L93, 112-C5 (1995)

GALAXIES: STELLAR CONTENT

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

Infrared Line Emission from High-Redshift Galaxies. I. Calculations. *Filippo Mannucci & Steven V. W. Beckwith.* 442, 569, 87-F8 (1995)

The Influence of Stellar Populations on Elliptical Galaxy Distance Estimates. *Michael D. Gregg.* 443, 527, 105-B4 (1995)

GALAXIES: STRUCTURE

Dark Matter in Elliptical Galaxies. *C. M. Carollo, P. T. de Zeeuw, R. P. van der Marel, I. J. Danziger, & E. E. Qian.* 441, L25, 66-F9 (1995)

A Test of Galaxy Evolutionary Models via Angular Sizes. *Myungshin Im, Stefano Casertano, Richard E. Griffiths, Kavan U Ratnatunga, & J. Anthony Tyson.* 441, 494, 68-G8 (1995)

The Potential-Energy Tensors for Subsystems. III. Mass Distributions with Ellipsoidal and Confocal Strata. *R. Caimmi.* 441, 533, 69-D3 (1995)

A Technique for Determining the Extragalactic Distance Scale. *Masashi Chiba & Yuzuru Yoshii.* 442, 82, 78-C11 (1995)

The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)

A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

Blue Lobes in the Hydra A Cluster Central Galaxy. *Brian R. McNamara.* 443, 77, 96-C8 (1995)

Establishing the Connection between Peanut-shaped Bulges and Galactic Bars. *Konrad Kuijken & Michael R. Merrifield.* 443, L13, 102-C11 (1995)

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

GALAXY: ABUNDANCES

Giant Branch Mixing and the Ultimate Fate of Primordial Deuterium in the Galaxy. *Craig J. Hogan.* 441, L17, 66-E7 (1995)

GALAXY: CENTER

A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

H110α Observations of Sagittarius A West: Ionized Gas at Peculiar Velocities at the Galactic Center. *Farhad Yusef-Zadeh, Jun-Hui Zhao, & W. M. Goss.* 442, 646, 88-G9 (1995)

Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE. *D. M. Smith, M. Leventhal, N. Gehrels, J. Tueller, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, D. A. Grabelsky, W. R. Purcell, M. P. Ulmer, & G. V. Jung.* 443, 117, 96-G1 (1995)

The Effects of Redshifts and Focusing on the Spectrum of an Accretion Disk in the Galactic Center Black Hole Candidate Sagittarius A*. *J. M. Hollywood & Fulvio Melia.* 443, L17, 102-D6 (1995)

A Star Trail Model of the Galactic Center Snake. *Jennifer Nicholls & E. T. Le Strange.* 443, 638, 106-F3 (1995)

GALAXY: GENERAL

Magnitude Offset between Lensed Stars and Observed Stars: A New Probe of the Structure of the Galactic Bar. *K. Z. Stanek.* 441, L29, 66-G3 (1995)

Microlensing by Stars. *Marc Kamionkowski.* 442, L9, 84-E5 (1995)

GALAXY: GLOBULAR CLUSTERS: GENERAL

The Sodium/Aluminum–Oxygen Anticorrelation in ω Centauri and Other Clusters. *John E. Norris & G. S. Da Costa.* 441, L81, 76-B11 (1995)

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

Yet Another Theory for the Origin of Halo Globular Clusters and Spheroid Stars. *Mario Vietri & Enrico Pesce.* 442, 618, 88-D8 (1995)

Influence of the Stellar Mass Function on the Evaporation Rate of Tidally Limited Postcollapse Globular Clusters. *Hyung Mok Lee & Jeremy Goodman.* 443, 109, 96-F4 (1995)

GALAXY: GLOBULAR CLUSTERS: INDIVIDUAL

Messier Number: M4

Radial Velocities of Stars in the Globular Cluster M4 and the Cluster Distance. *Ruth C. Peterson, Richard F. Rees, & Kyle M. Cudworth.* 443, 124, 96-G11 (1995)

Messier Number: M15

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

Messier Number: M68

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

NGC Number: NGC 6752

Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

Name: 47 Tucanae

White Dwarfs and Mass Segregation in the Core of 47 Tucanae. *Francesco Paresce, Guido De Marchi, & Robert Jedrzejewski.* 442, L57, 94-D12 (1995)

GALAXY: HALO

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

Interstellar Titanium in the Galactic Halo. *Keith Lipman & Max Pettini.* 442, 628, 88-E8 (1995)

GALAXY: KINEMATICS AND DYNAMICS

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

GALAXY: OPEN CLUSTERS AND ASSOCIATIONS: GENERAL

A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions. *M. Simon, A. M. Ghez, Ch. Leinert, L. Cassar, W. P. Chen, R. R. Howell, R. F. Jameson, K. Matthews, G. Neugebauer, & A. Richichi.* 443, 625, 106-E1 (1995)

GALAXY: STELLAR CONTENT

Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

GALAXY: STRUCTURE

Magnitude Offset between Lensed Stars and Observed Stars: A New Probe of the Structure of the Galactic Bar. *K. Z. Stanek.* 441, L29, 66-G3 (1995)

Microlensing by Stars. *Marc Kamionkowski.* 442, L9, 84-E5 (1995)

GAMMA RAYS: BURSTS

On the Correlation of Angular Position with Time of Occurrence of Gamma-Ray Bursts. *Vahé Petrosian & Bradley Efron.* 441, L37, 67-A9 (1995)

Time-dependent Clustering Analysis of the Second BATSE Gamma-Ray Burst Catalog. *J. J. Brainerd, C. A. Meegan, Michael S. Briggs, G. N. Pendleton, & M. N. Brock.* 441, L39, 67-B1 (1995)

Repeating Sources of Classical Gamma-Ray Bursts. *V. C. Wang & R. E. Lingenfelter.* 441, 747, 72-C1 (1995)

Femtolensing: Beyond the Semiclassical Approximation. *Andrew Ulmer & Jeremy Goodman.* 442, 67, 78-B4 (1995)

Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

GAMMA RAYS: OBSERVATIONS

EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

OSSE Observations of GX 339−4. *D. A. Grabelsky, S. M. Matz, W. R. Purcell, M. P. Ulmer, J. E. Grove, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, & G. V. Jung.* 441, 800, 73-A6 (1995)

On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

EGRET Observations of the BL Lacertae Objects 0716+714 and 0521−365. *Y. C. Lin, D. L. Bertsch, B. L. Dingus, J. A. Esposito, C. E. Fichtel, R. C. Hartman, S. D. Hunter, G. Kanbach, D. A. Kniffen, H. A. Mayer-Hasselwander, P. F. Michelson, C. von Montigny, R. Mukherjee, P. L. Nolan, E. Schneid, P. Sreekumar, & D. J. Thompson.* 442, 96, 78-E7 (1995)

Images of HCO^+ (1–0) Emission in a Molecular Cloud near 1E 1740.7−2942. *J. A. Phillips & T. Joseph W. Lazio.* 442, L37, 85-B7 (1995)

Search for Compton-backscattered Annihilation Radiation from the Galactic Center with the OSSE. *D. M. Smith, M. Leventhal, N. Gehrels, J. Tueller, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, D. A. Grabelsky, W. R. Purcell, M. P. Ulmer, & G. V. Jung.* 443, 117, 96-G1 (1995)

GAMMA RAYS: THEORY

A Unified Picture for High-Energy Emission in Spin-powered Pulsars. *T. Kamae & Y. Sekimoto.* 443, 780, 108-E7 (1995)

GRAVITATION

Gravity Waves in the Lower Solar Corona. *Yu-Qing Lou.* 442, 401, 82-E1 (1995)

HYDRODYNAMICS

Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

The Stability and Collimation of Three-dimensional Jets. *Philip E. Hardee, David A. Clarke, & D. Andrew Howell.* 441, 644, 71-A1 (1995)

The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

Hot Gas in Superclusters and Microwave Background Distortions. *Fred M. Persi, David N. Spergel, Renyue Cen, & J. P. Ostriker.* 442, 1, 77-C1 (1995)

Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Gravity Waves in the Lower Solar Corona. *Yu-Qing Lou.* 442, 401, 82-E1 (1995)

Hydrodynamic Simulations of Galaxy Formation. I. Dissipation and the Maximum Mass of Galaxies. *Anne A. Thoul & David H. Weinberg.* 442, 480, 86-E5 (1995)

The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

Analysis of the Type Ia Supernova SN 1994D. *P. Höflich.* 443, 89, 96-D9 (1995)

The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

Oscillation-Convection Coupling: Cause of Supergranulation? *Charles L. Wolff.* 443, 423, 100-G12 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

The Striking Near-Infrared Morphology of the Inner Region in M100. *J. H. Knapen, J. E. Beckman, I. Shlosman, R. F. Peletier, C. H. Heller, & R. S. de Jong.* 443, L73, 111-G3 (1995)

HYDROMAGNETICS

Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-dimensional Flow. *Dongsu Ryu & T. W. Jones.* 442, 228, 80-C5 (1995)

INFRARED: GALAXIES

Near-Infrared Imaging of CfA Seyfert Galaxies. *K. K. McLeod & G. H. Rieke.* 441, 96, 60-F4 (1995)

An Estimate of the Gas Inflow Rate along the Bar in NGC 7479. *A. C. Quillen, Jay A. Frogel, Jeffrey D. P. Kenney, R. W. Pogge, & D. L. DePoy.* 441, 549, 69-E8 (1995)

Infrared Line Emission from High-Redshift Galaxies. I. Calculations. *Filippo Mannucci & Steven V. W. Beckwith.* 442, 569, 87-F8 (1995)

The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)

The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

INFRARED: ISM: CONTINUUM

Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

INFRARED: ISM: LINES AND BANDS

A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

3.4 Micron Emission from Ultraviolet Excitation of Alkanes. *G. P. Pinho & W. W. Duley.* 442, L41, 85-C1 (1995)

Laboratory Studies of 3.3 Micron Emission from Naphthalene Induced by 193 and 248 Nanometer Excitation. *Richard M. Williams & Stephen R. Leone.* 443, 675, 107-B13 (1995)

INFRARED: SOLAR SYSTEM

Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment. *William J. Spiesman, Michael G. Hauser, Thomas Kelsall, Carey M. Lisse, S. Harvey Moseley, Jr., William T. Reach, Robert F. Silverberg, Sally W. Stemwedel, & Janet L. Weiland.* 442, 662, 89-B8 (1995)

INFRARED: STARS

Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

Infrared Properties of Circumstellar Dust Envelopes of Oxygen-rich Asymptotic Giant Branch Stars. *O. Hashimoto.* 442, 286, 81-B3 (1995)

INSTABILITIES

Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

Dynamics of Gravitational Instability Is Nonlocal. *Lev Kofman & Dmitry Pogosyan.* 442, 30, 77-E12 (1995)

Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

The Radial-azimuthal Instability of Accretion Disks. I. Radiation Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 736, 90-C10 (1995)

The Radial-azimuthal Instability of Accretion Disks. II. Gas Pressure Domination. *Xue-Bing Wu, Qi-Bin Li, Yong-Heng Zhao, & Lan-Tian Yang.* 442, 743, 90-D7 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

Unified Description of Accretion Flows around Black Holes. *Xingming Chen, Marek A. Abramowicz, Jean-Pierre Lasota, Ramesh Narayan, & Insu Yi.* 443, L61, 111-E4 (1995)

INSTRUMENTATION: SPECTROGRAPHS

Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

INTERPLANETARY MEDIUM

Near- and Far-Infrared Observations of Interplanetary Dust Bands from the *COBE* Diffuse Infrared Background Experiment. *William J. Spiesman, Michael G. Hauser, Thomas Kelsall, Carey M. Lisse, S. Harvey Moseley, Jr., William T. Reach, Robert F. Silverberg, Sally W. Stemwedel, & Janet L. Weiland.* 442, 662, 89-B8 (1995)

Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations. *B. Klecker, M. C. McNab, J. B. Blake, D. C. Hamilton, D. Hovestadt, H. Kästle, M. D. Looper, G. M. Mason, J. E. Mazur, & M. Scholer.* 442, L69, 94-F9 (1995)

ISM: ABUNDANCES

Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)

A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

Widespread Molecular Emission in the Galactic Plane from Species Other Than ^{12}CO. *Harvey S. Liszt.* 442, 163, 79-D8 (1995)

High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

Interstellar Titanium in the Galactic Halo. *Keith Lipman & Max Pettini.* 442, 628, 88-E8 (1995)

First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

Iron to Oxygen Abundance Ratio in the Orion Nebula. *Manuel A. Bautista & Anil K. Pradhan.* 442, L65, 94-F1 (1995)

Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations. *B. Klecker, M. C. McNab, J. B. Blake, D. C. Hamilton, D. Hovestadt, H. Kästle, M. D. Looper, G. M. Mason, J. E. Mazur, & M. Scholer.* 442, L69, 94-F9 (1995)

CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

ISM: ATOMS

Atomic Iron in Its ^5D Ground State: A Direct Measurement of the $J = 0 \leftarrow 1$ and $J = 1 \leftarrow 2$ Fine-Structure Intervals. *John M. Brown & Kenneth M. Evenson.* 441, L97, 76-D11 (1995)

ISM: BUBBLES

The Hot Gas Filling Factor in the Vicinity of the Sun. *K. M. Ferrière.* 441, 281, 63-B12 (1995)

First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

ISM: CLOUDS

Cyanogen Excitation in Diffuse Interstellar Clouds. *Katherine C. Roth & David M. Meyer.* 441, 129, 61-B7 (1995)

Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

A New Method for Determining the CO to H_2 Conversion Factor for Translucent Clouds. *Loris Magnani & Joseph S. Onello.* 443, 169, 97-D9 (1995)

The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

The Importance of Classes of Neutral-Neutral Reactions in the Production of Complex Interstellar Molecules. *R. P. A. Bettens, H.-H. Lee, & Eric Herbst.* 443, 664, 107-A12 (1995)

Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

ISM: COSMIC RAYS

Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation. *D. J. Bird, S. C. Corbató, H. Y. Dai, J. W. Elbert, K. D. Green, M. A. Huang, D. B. Kieda, S. Ko, C. G. Larsen, E. C. Loh, M. Z. Luo, M. H. Salamon, J. D. Smith, P. Sokolsky, P. Sommers, J. K. K. Tang, & S. B. Thomas.* 441, 144, 61-C12 (1995)

In Search of a Source for the 320 EeV Fly's Eye Cosmic Ray. *Jerome W. Elbert & Paul Sommers.* 441, 151, 61-D9 (1995)

Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

The Simulation of Complete 11 and 22 Year Modulation Cycles for Cosmic Rays in the Heliosphere Using a Drift Model with Global Merged Interaction Regions. *J. A. le Roux & M. S. Potgieter.* 442, 847, 91-G3 (1995)

An Estimate of the Location of the Modulation Boundary for $E > 70$ MeV Galactic Cosmic Rays Using *Voyager* and *Pioneer* Spacecraft Data. *J. A. Lockwood & W. R. Webber.* 442, 852, 91-G12 (1995)

Effect of Adiabatic Deceleration on the Focused Transport of Solar Cosmic Rays. *D. Ruffolo.* 442, 861, 92-A12 (1995)

Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations. *B. Klecker, M. C. McNab, J. B. Blake, D. C. Hamilton, D. Hovestadt, H. Kästle, M. D. Looper, G. M. Mason, J. E. Mazur, & M. Scholer.* 442, L69, 94-F9 (1995)

ISM: DUST, EXTINCTION

Gas-Phase Chemistry in Dense Interstellar Clouds Including Grain Surface Molecular Depletion and Desorption. *E. A. Bergin, W. D. Langer, & P. F. Goldsmith.* 441, 222, 62-D7 (1995)

Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

Cosmic Dust Synthesis by Accretion and Coagulation. *G. Praburam & J. Goree.* 441, 830, 73-D4 (1995)

Influence of Galactic Dust on the Accuracy of Cosmic Microwave Anisotropy Measurements. *Gianfranco Guarini, Bianca Melchiorri, & Francesco Melchiorri.* 442, 23, 77-E1 (1995)

Can We Improve upon Astronomical Silicate? *Sang-Hee Kim & P. G. Martin.* 442, 172, 79-E6 (1995)

Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

The Distribution of Far-Infrared Light in the "Dusty Hand" Galaxy NGC 2146. *Beverly J. Smith, P. M. Harvey, & D. F. Lester.* 442, 610, 88-C10 (1995)
H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)
The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)
The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)
Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)
Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)
On the Charge Distribution Function of Dust Grains in a Hot Gas. *C. Cervetto, B. Barsella, & A. Ferrara.* 443, 648, 106-G12 (1995)
Ultraviolet Extinction to 10.8 Inverse Microns. *Per A. Aannestad.* 443, 653, 106-G11 (1995)
Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)
A New Desorption Mechanism for Condensed Phase Interstellar CO. *Fedor Dzegilenko & Eric Herbst.* 443, L81, 112-A11 (1995)
Interstellar Graphitic Particles Generated by Annealing of Nanodiamonds and Their Relation to the 2175 Å Peak Carrier. *Daniel Ugarte.* 443, L85, 112-B4 (1995)

ISM: GENERAL

The Hot Gas Filling Factor in the Vicinity of the Sun. *K. M. Ferrière.* 441, 281, 63-B12 (1995)
A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)
Widespread Molecular Emission in the Galactic Plane from Species Other Than ^{12}CO. *Harvey S. Liszt.* 442, 163, 79-D8 (1995)
Can We Improve upon Astronomical Silicate? *Sang-Hee Kim & P. G. Martin.* 442, 172, 79-E6 (1995)
Images of HCO^+ (1–0) Emission in a Molecular Cloud near 1E 1740.7–2942. *J. A. Phillips & T. Joseph W. Lazio.* 442, L37, 85-B7 (1995)
The Neutral Atomic Phases of the Interstellar Medium. *Mark G. Wolfire, David Hollenbach, Christopher F. McKee, A. G. G. M. Tielens, & E. L. O. Bakes.* 443, 152, 97-C3 (1995)
On the Charge Distribution Function of Dust Grains in a Hot Gas. *C. Cervetto, B. Barsella, & A. Ferrara.* 443, 648, 106-G12 (1995)

ISM: H II REGIONS

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)
A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)
Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)
The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)
Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)
Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)
The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

ISM: INDIVIDUAL

Name: Cassiopeia A

The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)
The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

Name: Lynds 1457

The Magnetic Field in Lynds 1457: Multiband Photopolarimetry. *B-G Andersson & Peter G. Wannier.* 443, L49, 103-B2 (1995)

Name: ρ Ophiuchi Cloud

Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

Name: Orion Nebula

Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)
Iron to Oxygen Abundance Ratio in the Orion Nebula. *Manuel A. Bautista & Anil K. Pradhan.* 442, L65, 94-F1 (1995)

Name: Sagittarius A

H110α Observations of Sagittarius A West: Ionized Gas at Peculiar Velocities at the Galactic Center. *Farhad Yusef-Zadeh, Jun-Hui Zhao, & W. M. Goss.* 442, 646, 88-G9 (1995)

Name: Sagittarius B2 F

Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

Name: Tycho's Supernova

Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

NGC Number: NGC 1333

A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

NGC Number: NGC 2023

High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

NGC Number: NGC 7023

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

NGC Number: NGC 7026

Collisional Effects in He I: An Observational Analysis. *J. Kingdon & G. J. Ferland.* 442, 714, 90-A8 (1995)

NGC Number: NGC 7538

An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

Alphanumeric: B335

Line Formation in Collapsing Cloud Cores with Rotation and Applications to B335 and IRAS 16293–2422. *Shudong Zhou.* 442, 685, 89-E11 (1995)

Alphanumeric: 3C 400.2

ROSAT Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

Alphanumeric: GL 490

An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

Alphanumeric: IRAS 16293–2422

Line Formation in Collapsing Cloud Cores with Rotation and Applications to B335 and IRAS 16293–2422. *Shudong Zhou.* 442, 685, 89-E11 (1995)

Alphanumeric: IRS 9

An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

Alphanumeric: L1157

Ammonia Emission from Bow Shocks in the L1157 Outflow. *M. Tafalla & R. Bachiller.* 443, L37, 102-G4 (1995)

Alphanumeric: OMC-1

Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)

Alphanumeric: S106

The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)

Alphanumeric: W3

Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

Alphanumeric: W31A

Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)

Alphanumeric: W44

A Fast Expanding H I Shell in W44: A Preexisting Wind-blown Shell Overtaken by a Supernova Remnant. *Bon-Chul Koo & Carl Heiles.* 442, 679, 89-E1 (1995)

Alphanumeric: W75S

Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)

ISM: JETS AND OUTFLOWS

Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

The Stability and Collimation of Three-dimensional Jets. *Philip E. Hardee, David A. Clarke, & D. Andrew Howell.* 441, 644, 71-A1 (1995)

An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

Images of HCO^+ (1–0) Emission in a Molecular Cloud near 1E 1740.7−2942. *J. A. Phillips & T. Joseph W. Lazio.* 442, L37, 85-B7 (1995)

Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

Powerful Jets and Weak Outflows: HH 1–2 and HH 34. *Lawrence M. Chernin & Colin R. Masson.* 443, 181, 97-E11 (1995)

Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

Ammonia Emission from Bow Shocks in the L1157 Outflow. *M. Tafalla & R. Bachiller.* 443, L37, 102-G4 (1995)

Distinction of Parallel Outflows in L1448 through H_2 Excitation. *Christopher J. Davis & Michael D. Smith.* 443, L41, 102-G14 (1995)

The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

ISM: KINEMATICS AND DYNAMICS

The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

Distinction of Parallel Outflows in L1448 through H_2 Excitation. *Christopher J. Davis & Michael D. Smith.* 443, L41, 102-G14 (1995)

CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

ISM: MAGNETIC FIELDS

Polarization Properties of Two Pulsars. *R. N. Manchester & Simon Johnston.* 441, L65, 75-G6 (1995)

Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)

ISM: MOLECULES

Cyanogen Excitation in Diffuse Interstellar Clouds. *Katherine C. Roth & David M. Meyer.* 441, 129, 61-B7 (1995)

Gas-Phase Chemistry in Dense Interstellar Clouds Including Grain Surface Molecular Depletion and Desorption. *E. A. Bergin, W. D. Langer, & P. F. Goldsmith.* 441, 222, 62-D7 (1995)

Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

A Search for Pre–Main-Sequence Stars in High-Latitude Molecular Clouds. III. A Survey of the *Einstein* Database. *Jean-Pierre Caillault, Loris Magnani, & Chris Fryer.* 441, 261, 62-G12 (1995)

EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)

An HCO^+ Study of NGC 7538, IRS 9, and GL 490. *Tatsuhiko I. Hasegawa & George F. Mitchell.* 441, 665, 71-B11 (1995)

A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

Widespread Molecular Emission in the Galactic Plane from Species Other Than ^{12}CO. *Harvey S. Liszt.* 442, 163, 79-D8 (1995)

On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

3.4 Micron Emission from Ultraviolet Excitation of Alkanes. *G. P. Pinho & W. W. Duley.* 442, L41, 85-C1 (1995)

Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)

Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

The Importance of Classes of Neutral-Neutral Reactions in the Production of Complex Interstellar Molecules. *R. P. A. Bettens, H.-H. Lee, & Eric Herbst.* 443, 664, 107-A12 (1995)

The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

A New Desorption Mechanism for Condensed Phase Interstellar CO. *Fedor Dzegilenko & Eric Herbst.* 443, L81, 112-A11 (1995)

ISM: PLANETARY NEBULAE: GENERAL

A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

ISM: PLANETARY NEBULAE: INDIVIDUAL

Name: BE Ursae Majoris

BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

Name: Red Rectangle

Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

NGC Number: NGC 7027

Collisional Effects in He I: An Observational Analysis. *J. Kingdon & G. J. Ferland.* 442, 714, 90-A8 (1995)

Alphanumeric: He 3-1357

Recent Changes in the *IUE* Spectrum of the Very Young Planetary Nebula He 3-1357 (=SAO 244567). *Walter A. Feibelman.* 443, 245, 98-D13 (1995)

Alphanumeric: IRAS 09371+1212

Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

Alphanumeric: LMC N66

Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

ISM: REFLECTION NEBULAE

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

ISM: STRUCTURE

The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

Iron to Oxygen Abundance Ratio in the Orion Nebula. *Manuel A. Bautista & Anil K. Pradhan.* 442, L65, 94-F1 (1995)

Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

ISM: SUPERNOVA REMNANTS

The Hot Gas Filling Factor in the Vicinity of the Sun. *K. M. Ferrière.* 441, 281, 63-B12 (1995)

The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

A Fast Expanding H I Shell in W44: A Preexisting Wind-blown Shell Overtaken by a Supernova Remnant. *Bon-Chul Koo & Carl Heiles.* 442, 679, 89-E1 (1995)

ROSAT Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

A Star Trail Model of the Galactic Center Snake. *Jennifer Nicholls & E. T. Le Strange.* 443, 638, 106-F3 (1995)

The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

LINE: FORMATION

The He I Emission Lines of SN 1987A. *Hongwei Li & Richard McCray.* 441, 821, 73-C6 (1995)

Infrared Line Emission from High-Redshift Galaxies. I. Calculations. *Filippo Mannucci & Steven V. W. Beckwith.* 442, 569, 87-F8 (1995)

Line Formation in Collapsing Cloud Cores with Rotation and Applications to B335 and IRAS 16293−2422. *Shudong Zhou.* 442, 685, 89-E11 (1995)

LINE: IDENTIFICATION

Atomic Iron in Its ^5D Ground State: A Direct Measurement of the $J = 0 \leftarrow 1$ and $J = 1 \leftarrow 2$ Fine-Structure Intervals. *John M. Brown & Kenneth M. Evenson.* 441, L97, 76-D11 (1995)

Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

Laboratory Studies of 3.3 Micron Emission from Naphthalene Induced by 193 and 248 Nanometer Excitation. *Richard M. Williams & Stephen R. Leone.* 443, 675, 107-B13 (1995)

LINE: PROFILES

Velocity Profile of the Ionized Disk and the Mass of the Black Hole in M87. *Sandip K. Chakrabarti.* 441, 576, 70-A6 (1995)

Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

Line Formation in Collapsing Cloud Cores with Rotation and Applications to B335 and IRAS 16293−2422. *Shudong Zhou.* 442, 685, 89-E11 (1995)

The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

CO and OH Absorption toward the Low-Latitude Radio Source 2023+336. *Henry A. Kobulnicky, John M. Dickey, & Rachel L. Akeson.* 443, L45, 103-A9 (1995)

The Variability of the Double-peaked Balmer Lines in the Active Nucleus of NGC 1097. *Thaisa Storchi-Bergmann, Michael Eracleous, Mario Livio, Andrew S. Wilson, Alexei V. Filippenko, & Jules P. Halpern.* 443, 617, 106-D2 (1995)

Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

MAGNETIC FIELDS

The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

MAGNETOHYDRODYNAMICS: MHD

Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

Magnetoconvection Dynamics in a Stratified Layer. II. A Low-Order Model of the Tilting Instability. *Steven R. Lantz.* 441, 925, 74-F2 (1995)

A Solar Flare Triggering Mechanism Based on the Woltjer-Taylor Minimum Energy Principle. *K. Kusano, Y. Suzuki, & K. Nishikawa.* 441, 942, 74-G9 (1995)

Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)
On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)
Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-dimensional Flow. *Dongsu Ryu & T. W. Jones.* 442, 228, 80-C5 (1995)
Theoretical Properties of Ω-Loops in the Convective Zone of the Sun. III. Extended Updrafts. *E. N. Parker.* 442, 405, 82-E8 (1995)
Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)
Brunt-Väisälä Growth Rate and the Radial Emergence of Equipartition Fields. *Sydney D'Silva.* 443, 444, 101-B11 (1995)
Heating of the Solar Middle Chromosphere by Large-Scale Electric Currents. *Michael L. Goodman.* 443, 450, 101-C7 (1995)
Asymptotic Analysis of Force-free Magnetic Fields of Cylindrical Symmetry. *P. A. Sturrock, S. K. Antiochos, & G. Roumeliotis.* 443, 804, 109-A1 (1995)
Shear-induced Opening of the Coronal Magnetic Field. *Richard Wolfson.* 443, 810, 109-A11 (1995)
Magnetostatic Structures of the Solar Corona. II. The Magnetic Topology of Quiescent Prominences. *B. C. Low & J. R. Hundhausen.* 443, 818, 109-B9 (1995)

MASERS

A Nonlocal Calculation of Circumstellar OH Maser Emission. *Alan J. Collison & Gerald E. Nedoluha.* 442, 311, 81-D6 (1995)
Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)
Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)
Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

METHODS: ANALYTICAL

Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)

METHODS: DATA ANALYSIS

Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

METHODS: LABORATORY

Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

METHODS: NUMERICAL

Scale Invariance and Self-Similar Behavior of Dark Matter Halos. *F. Moutarde, J.-M. Alimi, F. R. Bouchet, & R. Pellat.* 441, 10, 59-D1 (1995)
Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)
Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)
Weakly Nonlinear Gaussian Fluctuations and the Edgeworth Expansion. *Roman Juszkiewicz, David H. Weinberg, Piotr Amsterdamski, Michał Chodorowski, & François Bouchet.* 442, 39, 77-F10 (1995)
Physically Detached "Compact Groups." *Lars Hernquist, Neal Katz, & David H. Weinberg.* 442, 57, 78-A3 (1995)
Femtolensing: Beyond the Semiclassical Approximation. *Andrew Ulmer & Jeremy Goodman.* 442, 67, 78-B4 (1995)
Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-dimensional Flow. *Dongsu Ryu & T. W. Jones.* 442, 228, 80-C5 (1995)
Hydrodynamic Simulations of Galaxy Formation. I. Dissipation and the Maximum Mass of Galaxies. *Anne A. Thoul & David H. Weinberg.* 442, 480, 86-E5 (1995)
The Settling of Warped Disks in Oblate Dark Halos. *John Dubinski & Konrad Kuijken.* 442, 492, 86-F7 (1995)
Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)
Window Functions for Cosmic Microwave Background Experiments. *Martin White & Mark Srednicki.* 443, 6, 95-C9 (1995)
Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)
A First Map of the Cosmic Microwave Background at 0.5° Resolution. *Martin White & Emory F. Bunn.* 443, L53, 111-D1 (1995)

METHODS: OBSERVATIONAL

Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

METHODS: STATISTICAL

Combinatorics and Companion Galaxies: Paradox Lost. *William I. Newman & Yervant Terzian.* 441, 505, 69-A8 (1995)
Repeating Sources of Classical Gamma-Ray Bursts. *V. C. Wang & R. E. Lingenfelter.* 441, 747, 72-C1 (1995)
Bayesian Approaches to Testing the Nature of Primordial Density Fluctuation. *Shan Luo & Ethan Vishniac.* 443, 469, 104-D1 (1995)
The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey. *Simon A. Pustil'nik, Andrei V. Ugryumov, Valentin A. Lipovetsky, Trinh X. Thuan, & Natalia G. Guseva.* 443, 499, 104-F11 (1995)
Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

MOLECULAR DATA

Rototranslational Collision-induced Absorption by H_2–H_2 Pairs at Temperatures from 600 to 7000 K. *Chunguang Zheng & Aleksandra Borysow.* 441, 960, 75-B6 (1995)
Laboratory Measurement of Rotational Spectrum of the ^{18}OH Radical Using a Tunable Far-Infrared Spectrometer. *Isamu Morino, Hitoshi Odashima, Fusakazu Matsushima, Shozo Tsunekawa, & Kojiro Takagi.* 442, 907, 92-F3 (1995)

MOLECULAR PROCESSES

Gas-Phase Chemistry in Dense Interstellar Clouds Including Grain Surface Molecular Depletion and Desorption. *E. A. Bergin, W. D. Langer, & P. F. Goldsmith.* 441, 222, 62-D7 (1995)
Hydrogen Chloride in OMC-1. *Peter Schilke, T. G. Phillips, & Ning Wang.* 441, 334, 64-A1 (1995)
Rototranslational Collision-induced Absorption by H_2–H_2 Pairs at Temperatures from 600 to 7000 K. *Chunguang Zheng & Aleksandra Borysow.* 441, 960, 75-B6 (1995)
Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)
The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)
A Nonlocal Calculation of Circumstellar OH Maser Emission. *Alan J. Collison & Gerald E. Nedoluha.* 442, 311, 81-D6 (1995)
3.4 Micron Emission from Ultraviolet Excitation of Alkanes. *G. P. Pinho & W. W. Duley.* 442, L41, 85-C1 (1995)
Detection of a Series of Methanol Maser Lines at 1.9 Millimeter Wavelength. *V. I. Slysh, S. V. Kalenskii, & I. E. Val'tts.* 442, 668, 89-C7 (1995)
A New Method for Determining the CO to H_2 Conversion Factor for Translucent Clouds. *Loris Magnani & Joseph S. Onello.* 443, 169, 97-D9 (1995)
Ammonia Formation from the Reactions of H Atoms with N Atoms Trapped in a Solid N_2 Matrix at 10–30 K. *Kenzo Hiraoka, Akihiro Yamashita, Yasunori Yachi, Kazuo Aruga, Tetsuya Sato, & Hachizo Muto.* 443, 363, 100-B7 (1995)
The Importance of Classes of Neutral-Neutral Reactions in the Production of Complex Interstellar Molecules. *R. P. A. Bettens, H.-H. Lee, & Eric Herbst.* 443, 664, 107-A12 (1995)

Laboratory Studies of 3.3 Micron Emission from Naphthalene Induced by 193 and 248 Nanometer Excitation. *Richard M. Williams & Stephen R. Leone.* 443, 675, 107-B13 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

A New Desorption Mechanism for Condensed Phase Interstellar CO. *Fedor Dzegilenko & Eric Herbst.* 443, L81, 112-A11 (1995)

MOON

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of the Moon. *William H. Smyth & M. L. Marconi.* 443, 371, 100-C4 (1995)

NUCLEAR REACTIONS, NUCLEOSYNTHESIS, ABUNDANCES

Absence of a Lower Limit on Ω_b in Inhomogeneous Primordial Nucleosynthesis. *Karsten Jedamzik, Grant J. Mathews, & George M. Fuller.* 441, 465, 68-D9 (1995)

Cosmological and Astrophysical Consequences of a High Primordial Deuterium Abundance. *Elisabeth Vangioni-Flam & Michel Cassé.* 441, 471, 68-E4 (1995)

The Sodium/Aluminum–Oxygen Anticorrelation in ω Centauri and Other Clusters. *John E. Norris & G. S. Da Costa.* 441, L81, 76-B11 (1995)

Measurement of the $^{16}O(n, \gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant p-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

Deviations from Chemical Equilibrium Due to Spin-down as an Internal Heat Source in Neutron Stars. *Andreas Reisenegger.* 442, 749, 90-E3 (1995)

Galactic Evolution of D and ^{3}He. *Daniele Galli, Francesco Palla, Federico Ferrini, & Umberto Penco.* 443, 536, 105-C3 (1995)

OCCULTATIONS

A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions. *M. Simon, A. M. Ghez, Ch. Leinert, L. Cassar, W. P. Chen, R. R. Howell, R. F. Jameson, K. Matthews, G. Neugebauer, & A. Richichi.* 443, 625, 106-E1 (1995)

PLANETS AND SATELLITES: GENERAL

Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

PLANETS AND SATELLITES: INDIVIDUAL

Io

Fabry-Perot Imaging of O III λ = 5007 Å Emission in the Io Plasma Torus. *M. Küppers & K. Jockers.* 441, L101, 76-E4 (1995)

Jupiter

Excitation of Low-Order Jovian p-Modes by Cometary Impacts. *Andrew J. Dombard & Stephen P. Boughn.* 443, L89, 112-B11 (1995)

Mercury

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of Mercury. *William H. Smyth & M. L. Marconi.* 441, 839, 73-E12 (1995)

PLASMAS

Cosmic Dust Synthesis by Accretion and Coagulation. *G. Praburam & J. Goree.* 441, 830, 73-D4 (1995)

Fabry-Perot Imaging of O III λ = 5007 Å Emission in the Io Plasma Torus. *M. Küppers & K. Jockers.* 441, L101, 76-E4 (1995)

High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

POLARIZATION

The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

Polarization from Scattering in Blobs. *Arthur D. Code & Barbara A. Whitney.* 441, 400, 64-G4 (1995)

Can the Variability of Solar-like Spotted Stars be Detected Polarimetrically? *Geoffrey K. Fox.* 441, 408, 65-A1 (1995)

Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

Polarization Properties of Two Pulsars. *R. N. Manchester & Simon Johnston.* 441, L65, 75-G6 (1995)

The Gravitational Lens System Q0957+561 in the Ultraviolet. *J. F. Dolan, A. G. Michalitsianos, R. W. Thompson, P. T. Boyd, K. G. Wolinski, R. C. Bless, M. J. Nelson, J. W. Percival, M. J. Taylor, J. L. Elliot, & G. W. van Citters.* 442, 87, 78-D5 (1995)

Can We Improve upon Astronomical Silicate? *Sang-Hee Kim & P. G. Martin.* 442, 172, 79-E6 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

The Magnetic Field in Lynds 1457: Multiband Photopolarimetry. *B-G Andersson & Peter G. Wannier.* 443, L49, 103-B2 (1995)

RADIATION MECHANISMS: NONTHERMAL

Pair Cascades in Extragalactic Jets. I. Gamma Rays. *R. D. Blandford & A. Levinson.* 441, 79, 60-D11 (1995)

Detection of a Cosmic Ray with Measured Energy Well beyond the Expected Spectral Cutoff due to Cosmic Microwave Radiation. *D. J. Bird, S. C. Corbató, H. Y. Dai, J. W. Elbert, K. D. Green, M. A. Huang, D. B. Kieda, S. Ko, C. G. Larsen, E. C. Loh, M. Z. Luo, M. H. Salamon, J. D. Smith, P. Sokolsky, P. Sommers, J. K. K. Tang, & S. B. Thomas.* 441, 144, 61-C12 (1995)

Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

A Star Trail Model of the Galactic Center Snake. *Jennifer Nicholls & E. T. Le Strange.* 443, 638, 106-F3 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

RADIATION MECHANISMS: THERMAL

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

RADIATIVE TRANSFER

Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

Polarization from Scattering in Blobs. *Arthur D. Code & Barbara A. Whitney.* 441, 400, 64-G4 (1995)

Infrared Properties of Circumstellar Dust Envelopes of Oxygen-rich Asymptotic Giant Branch Stars. *O. Hashimoto.* 442, 286, 81-B3 (1995)

Line Formation in Collapsing Cloud Cores with Rotation and Applications to B335 and IRAS 16293–2422. *Shudong Zhou.* 442, 685, 89-E11 (1995)

Analysis of the Type Ia Supernova SN 1994D. *P. Höflich.* 443, 89, 96-D9 (1995)

RADIO CONTINUUM: GALAXIES

Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

The Nature of the Stellar Continuum in the Radio Galaxy 3C 65. *Alan Stockton, Melinda Kellogg, & Susan E. Ridgway.* 443, L69, 111-F9 (1995)

RADIO CONTINUUM: ISM

The Polarization and Depolarization of Radio Emission from Supernova Remnant Cassiopeia A. *M. C. Anderson, J. W. Keohane, & L. Rudnick.* 441, 300, 63-D7 (1995)

Influence of Galactic Dust on the Accuracy of Cosmic Microwave Anisotropy Measurements. *Gianfranco Guarini, Bianca Melchiorri, & Francesco Melchiorri.* 442, 23, 77-E1 (1995)

Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

Time Variations of H_2O Maser Emission at W31A and W75S. *E. E. Lekht, E. Mendoza-Torres, & R. L. Sorochenko.* 443, 222, 98-B8 (1995)

Synchrotron Emission from the H_2O Maser Source in W3(OH). *M. J. Reid, A. L. Argon, C. R. Masson, K. M. Menten, & J. M. Moran.* 443, 238, 98-D3 (1995)

RADIO CONTINUUM: STARS

The Velocity of the Emitting Plasma of the Superluminal Galactic Source GRS 1915+105. *Gianluigi Bodo & Gabriele Ghisellini.* 441, L69, 75-G13 (1995)

The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

Temporal Variation of Pulsar Dispersion Measure. *Xinji Wu & Abraham C.-L. Chian.* 443, 261, 98-G1 (1995)

Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo. *Paul S. Ray, W. T. S. Deich, S. R. Kulkarni, Thomas A. Prince, S. E. Thorsett, Gautam Vasisht, A. Wolszczan, Donald C. Backer, John H. Holliman II, & John Middleditch.* 443, 265, 98-G8 (1995)

The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

RADIO LINES: GALAXIES

The Large-Scale Distribution of Late-Type Galaxies between Virgo and the Great Wall. *G. Lyle Hoffman, B. M. Lewis, & E. E. Salpeter.* 441, 28, 59-F2 (1995)

Disk Galaxies near the Line of Sight to 3C 273 and Conjectures on Lyman-Alpha Absorption. *E. E. Salpeter & G. Lyle Hoffman.* 441, 51, 60-A7 (1995)

Detection of an H I Disk in Hydra A? *K. S. Dwarakanath, F. N. Owen, & J. H. van Gorkom.* 442, L1, 84-D1 (1995)

RADIO LINES: ISM

EGRET Observations of Gamma-Ray Emission from the Interstellar Gas in Orion. *S. W. Digel, S. D. Hunter, & R. Mukherjee.* 441, 270, 63-A11 (1995)

Atomic Iron in Its ^5D Ground State: A Direct Measurement of the $J = 0 \leftarrow 1$ and $J = 1 \leftarrow 2$ Fine-Structure Intervals. *John M. Brown & Kenneth M. Evenson.* 441, L97, 76-D11 (1995)

Widespread Molecular Emission in the Galactic Plane from Species Other Than ^{12}CO. *Harvey S. Liszt.* 442, 163, 79-D8 (1995)

Observations of Magnetic Fields in Diffuse Clouds. *P. C. Myers, A. A. Goodman, R. Güsten, & C. Heiles.* 442, 177, 79-E11 (1995)

The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

The Distribution of Molecular and Neutral Gas and Magnetic Fields near the Bipolar H II Region S106. *D. A. Roberts, R. M. Crutcher, & T. H. Troland.* 442, 208, 80-A9 (1995)

Very Hot Ionized Material in Sagittarius B2 F. *David M. Mehringer, C. G. De Pree, Ralph A. Gaume, W. M. Goss, & Mark J. Claussen.* 442, L29, 85-A5 (1995)

H110α Observations of Sagittarius A West: Ionized Gas at Peculiar Velocities at the Galactic Center. *Farhad Yusef-Zadeh, Jun-Hui Zhao, & W. M. Goss.* 442, 646, 88-G9 (1995)

A Fast Expanding H I Shell in W44: A Preexisting Wind-blown Shell Overtaken by a Supernova Remnant. *Bon-Chul Koo & Carl Heiles.* 442, 679, 89-E1 (1995)

A New Method for Determining the CO to H_2 Conversion Factor for Translucent Clouds. *Loris Magnani & Joseph S. Onello.* 443, 169, 97-D9 (1995)

The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

RADIO LINES: STARS

H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

RELATIVITY

Optically Thin Accretion Disks in the Kerr Metric. *Gunnlaugur Björnsson.* 441, 765, 72-D12 (1995)

The Velocity of the Emitting Plasma of the Superluminal Galactic Source GRS 1915+105. *Gianluigi Bodo & Gabriele Ghisellini.* 441, L69, 75-G13 (1995)

Dynamics of Gravitational Instability Is Nonlocal. *Lev Kofman & Dmitry Pogosyan.* 442, 30, 77-E12 (1995)

The Effects of Redshifts and Focusing on the Spectrum of an Accretion Disk in the Galactic Center Black Hole Candidate Sagittarius A*. *J. M. Hollywood & Fulvio Melia.* 443, L17, 102-D6 (1995)

SCATTERING

Polarization from Scattering in Blobs. *Arthur D. Code & Barbara A. Whitney.* 441, 400, 64-G4 (1995)

SHOCK WAVES

Velocity Profile of the Ionized Disk and the Mass of the Black Hole in M87. *Sandip K. Chakrabarti.* 441, 576, 70-A6 (1995)

Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

Time-dependent Simulation of Oblique MHD Cosmic-Ray Shocks Using the Two-Fluid Model. *Adam Frank, T. W. Jones, & Dongsu Ryu.* 441, 629, 70-F11 (1995)

The Stability and Collimation of Three-dimensional Jets. *Philip E. Hardee, David A. Clarke, & D. Andrew Howell.* 441, 644, 71-A1 (1995)

Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-dimensional Flow. *Dongsu Ryu & T. W. Jones.* 442, 228, 80-C5 (1995)

Velocity Field of the Orion-KL Region in Molecular Hydrogen Emission. *Hajime Sugai, Hironobu Kawabata, Tomonori Usuda, Motoko Y. Inoue, Hirokazu Kataza, & Masuo Tanaka.* 442, 674, 89-D3 (1995)

Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code. *Mordecai-Mark Mac Low, Michael L. Norman, Arieh Königl, & Mark Wardle.* 442, 726, 90-B10 (1995)

Ammonia Emission from Bow Shocks in the L1157 Outflow. *M. Tafalla & R. Bachiller.* 443, L37, 102-G4 (1995)

SOLAR SYSTEM: FORMATION

Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

Cosmic Dust Synthesis by Accretion and Coagulation. *G. Praburam & J. Goree.* 441, 830, 73-D4 (1995)

STARS: ABUNDANCES

Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

The Sodium/Aluminum–Oxygen Anticorrelation in ω Centauri and Other Clusters. *John E. Norris & G. S. Da Costa.* 441, L81, 76-B11 (1995)

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

STARS: ACTIVITY

Can the Variability of Solar-like Spotted Stars be Detected Polarimetrically? *Geoffrey K. Fox.* 441, 408, 65-A1 (1995)

Magnetic Activity Variations of ϵ Eridani. *David F. Gray & Sallie L. Baliunas.* 441, 436, 65-D4 (1995)

Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

Activity Cycles in Cool Stars. I. Observation and Analysis Methods and Case Studies of Four Well-observed Examples. *Jeffrey C. Hall, G. W. Lockwood, & Erika L. Gibb.* 442, 778, 91-A1 (1995)

STARS: AGB AND POST-AGB

A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

Infrared Properties of Circumstellar Dust Envelopes of Oxygen-rich Asymptotic Giant Branch Stars. *O. Hashimoto.* 442, 286, 81-B3 (1995)

Hot Bottom Burning in Asymptotic Giant Branch Stars and Its Effect on Oxygen Isotopic Abundances. *Arnold I. Boothroyd, I.-Juliana Sackmann, & G. J. Wasserburg.* 442, L21, 84-G4 (1995)

STARS: ATMOSPHERES

Rototranslational Collision-induced Absorption by H_2–H_2 Pairs at Temperatures from 600 to 7000 K. *Chunguang Zheng & Aleksandra Borysow.* 441, 960, 75-B6 (1995)

Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

STARS: BINARIES: CLOSE

PSR J2019+2425 and PSR J2322+2057 and the Proper Motions of Millisecond Pulsars. *D. J. Nice & J. H. Taylor.* 441, 429, 65-C7 (1995)

X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

On the Nature of the Binary Radio Pulsar PSR B0042−73 in the Small Magellanic Cloud. *V. M. Lipunov, K. A. Postnov, & M. E. Prokhorov.* 441, 776, 72-F1 (1995)

Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

A Reanalysis of the SWP-HI *IUE* Observations of Capella. *Brian E. Wood & Thomas R. Ayres.* 443, 329, 99-F7 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

STARS: BINARIES: ECLIPSING

The Transient Accretion Disk in the Algol-Type Binary U Sagittae. *Geary E. Albright & Mercedes T. Richards.* 441, 806, 73-B2 (1995)

Hubble Space Telescope Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles. *E. L. Robinson, Janet H. Wood, R. C. Bless, J. C. Clemens, J. F. Dolan, J. L. Elliot, M. J. Nelson, J. W. Percival, M. J. Taylor, G. W. van Citters, & E. Zhang.* 443, 295, 99-C9 (1995)

RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

HST Images of the Eclipsing Pulsar B1957+20. *Andrew S. Fruchter, Jay Bookbinder, & Charles D. Bailyn.* 443, L21, 102-D13 (1995)

STARS: BINARIES: GENERAL

The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

STARS: BINARIES: SPECTROSCOPIC

Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

STARS: BINARIES: SYMBIOTIC

The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

STARS: BINARIES: VISUAL

Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions. *M. Simon, A. M. Ghez, Ch. Leinert, L. Cassar, W. P. Chen, R. R. Howell, R. F. Jameson, K. Matthews, G. Neugebauer, & A. Richichi.* 443, 625, 106-E1 (1995)

STARS: CARBON

Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*. *Hollis R. Johnson, Lisa M. Ensman, David R. Alexander, Eugene H. Avrett, Alexander Brown, Kenneth G. Carpenter, Kjell Eriksson, Bengt Gustafsson, Uffe G. Jørgensen, Philip D. Judge, Jeffrey L. Linsky, Donald G. Luttermoser, Francois Querci, Monique Querci, Richard D. Robinson, & Robert F. Wing.* 443, 281, 99-B6 (1995)

STARS: CHROMOSPHERES

Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*. *Hollis R. Johnson, Lisa M. Ensman, David R. Alexander, Eugene H. Avrett, Alexander Brown, Kenneth G. Carpenter, Kjell Eriksson, Bengt Gustafsson, Uffe G. Jørgensen, Philip D. Judge,*

Jeffrey L. Linsky, Donald G. Luttermoser, Francois Querci, Monique Querci, Richard D. Robinson, & Robert F. Wing. 443, 281, 99-B6 (1995)

STARS: CIRCUMSTELLAR MATTER

Dust Particle Settling in Passive Disks around T Tauri Stars: Models and *IRAS* Observations. *Kotaro Miyake & Yoshitsugu Nakagawa.* 441, 361, 64-C13 (1995)

Polarization from Scattering in Blobs. *Arthur D. Code & Barbara A. Whitney.* 441, 400, 64-G4 (1995)

Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

Infrared Properties of Circumstellar Dust Envelopes of Oxygen-rich Asymptotic Giant Branch Stars. *O. Hashimoto.* 442, 286, 81-B3 (1995)

A Nonlocal Calculation of Circumstellar OH Maser Emission. *Alan J. Collison & Gerald E. Nedoluha.* 442, 311, 81-D6 (1995)

The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

STARS: CORONAE

Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

Stellar Coronal Abundances. II. The First Ionization Potential Effect and Its Absence in the Corona of Procyon. *Jeremy J. Drake, J. Martin Laming, & Kenneth G. Widing.* 443, 393, 100-E2 (1995)

STARS: DISTANCES

H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

STARS: EARLY-TYPE

A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

The Threshold for Stellar Winds in Hot Main-Sequence Stars. *James A. Grigsby & Nancy D. Morrison.* 442, 794, 91-B7 (1995)

STARS: EMISSION-LINE, BE

X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

The Transient Accretion Disk in the Algol-Type Binary U Sagittae. *Geary E. Albright & Mercedes T. Richards.* 441, 806, 73-B2 (1995)

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

Dynamic Processes in Be Star Atmospheres. III. Rapid Multiwavelength Variability in γ Cassiopeiae. *Myron A. Smith.* 442, 812, 91-D2 (1995)

Effects of Prescattering Attenuation on Spectropolarimetric Line Profiles. *Kenneth Wood & J. E. Bjorkman.* 443, 348, 100-A3 (1995)

STARS: EVOLUTION

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

STARS: FLARE

Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-α Radiation in Stellar Flares. *Jeffrey W. Brosius, Richard D. Robinson, & Stephen P. Maran.* 441, 385, 64-E13 (1995)

Dynamic Processes in Be Star Atmospheres. III. Rapid Multiwavelength Variability in γ Cassiopeiae. *Myron A. Smith.* 442, 812, 91-D2 (1995)

STARS: FORMATION

Dense Gas in High-Latitude Molecular Clouds. *William T. Reach, Marc W. Pound, David J. Wilner, & Youngung Lee.* 441, 244, 62-F5 (1995)

A Molecular Line Study of NGC 1333/IRAS 4. *Geoffrey A. Blake, Göran Sandell, Ewine F. van Dishoeck, T. D. Groesbeck, Lee G. Mundy, & Colin Aspin.* 441, 689, 71-D13 (1995)

A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

The Relationship of Dense Gas to Star Formation in the Monoceros OB1 Dark Cloud. *Grace A. Wolf-Chase, Christopher K. Walker, & Charles J. Lada.* 442, 197, 79-G9 (1995)

Yet Another Theory for the Origin of Halo Globular Clusters and Spheroid Stars. *Mario Vietri & Enrico Pesce.* 442, 618, 88-D8 (1995)

Powerful Jets and Weak Outflows: HH 1–2 and HH 34. *Lawrence M. Chernin & Colin R. Masson.* 443, 181, 97-E11 (1995)

The Formation of Protostellar Disks. II. Disks around Intermediate-Mass Stars. *Harold W. Yorke, Peter Bodenheimer, & Gregory Laughlin.* 443, 199, 97-G7 (1995)

Ammonia Emission from Bow Shocks in the L1157 Outflow. *M. Tafalla & R. Bachiller.* 443, L37, 102-G4 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. I. Axisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 551, 105-D8 (1995)

A New Criterion for Bar-forming Instability in Rapidly Rotating Gaseous and Stellar Systems. II. Nonaxisymmetric Form. *Dimitris M. Christodoulou, Isaac Shlosman, & Joel E. Tohline.* 443, 563, 105-E10 (1995)

STARS: FUNDAMENTAL PARAMETERS

Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

STARS: HERTZSPRUNG-RUSSELL DIAGRAM

Magnitude Offset between Lensed Stars and Observed Stars: A New Probe of the Structure of the Galactic Bar. *K. Z. Stanek.* 441, L29, 66-G3 (1995)

STARS: HORIZONTAL-BRANCH

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

STARS: INDIVIDUAL

Constellation Name: Z Andromedae

The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

Constellation Name: α Aurigae

The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

A Reanalysis of the SWP-HI *IUE* Observations of Capella. *Brian E. Wood & Thomas R. Ayres.* 443, 329, 99-F7 (1995)

Constellation Name: α Bootis

Generation of Mass Loss in K Giants: The Failure of Global Oscillation Modes and Possible Implications. *G. Sutmann & M. Cuntz.* 442, L61, 94-E7 (1995)

Constellation Name: η Bootis

Modeling Solar-like Oscillations in η Bootis. *Jørgen Christensen-Dalsgaard, Timothy R. Bedding, & Hans Kjeldsen.* 443, L29, 102-F1 (1995)

Constellation Name: α Canis Minoris

Stellar Coronal Abundances. II. The First Ionization Potential Effect and Its Absence in the Corona of Procyon. *Jeremy J. Drake, J. Martin Laming, & Kenneth G. Widing.* 443, 393, 100-E2 (1995)

Constellation Name: η Carinae

Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

Constellation Name: γ Cassiopeiae

Dynamic Processes in Be Star Atmospheres. III. Rapid Multiwavelength Variability in γ Cassiopeiae. *Myron A. Smith.* 442, 812, 91-D2 (1995)

Constellation Name: Z Chamaeleontis

Hubble Space Telescope Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles. *E. L. Robinson, Janet H. Wood, R. C. Bless, J. C. Clemens, J. F. Dolan, J. L. Elliot, M. J. Nelson, J. W. Percival, M. J. Taylor, G. W. van Citters, & E. Zhang.* 443, 295, 99-C9 (1995)

Constellation Name: Cygnus X-1

Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

Constellation Name: V1500 Cygni

Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

Constellation Name: ε Eridani

Magnetic Activity Variations of ε Eridani. *David F. Gray & Sallie L. Baliunas.* 441, 436, 65-D4 (1995)

Constellation Name: Nova Persei 1992

Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results. *A. Vikhlinin, E. Churazov, M. Gilfanov, R. Sunyaev, A. Finoguenov, A. Dyachkov, R. Kremnev, K. Sukhanov, J. Ballet, A. Goldwurm, B. Cordier, A. Claret, M. Denis, J. F. Olive, J. P. Roques, & P. Mandrou.* 441, 779, 72-F7 (1995)

Constellation Name: U Sagittae

The Transient Accretion Disk in the Algol-Type Binary U Sagittae. *Geary E. Albright & Mercedes T. Richards.* 441, 806, 73-B2 (1995)

Constellation Name: υ Ursae Majoris

Nightly Variations of Nonradial Oscillations in the Delta Scuti Star υ Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

Constellation Name: BE Ursae Majoris

BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

Henry Draper Number: HD 37903

High-Density CN Filaments in NGC 2023. *A. Fuente, J. Martín-Pintado, & R. Gaume.* 442, L33, 85-A11 (1995)

Henry Draper Number: HD 147889

Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

Henry Draper Number: HD 200775

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

Alphanumeric: A0620−00

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

Alphanumeric: A1742−294

Detection of the A1742−294 X-Ray Burster above 35 keV. *E. Churazov, M. Gilfanov, R. Sunyaev, B. Novickov, I. Chulkov, V. Kovtunenko, A. Sheikhet, K. Sukhanov, A. Goldwurm, B. Cordier, J. Paul, P. O. Petrucci, E. Jourdain, J. P. Roques, L. Bouchet, & P. Mandrou.* 443, 341, 99-G8 (1995)

Alphanumeric: CD −38°10980

The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

Alphanumeric: 1E 2259+586

The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

Alphanumeric: GRO J0422+32

Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence. *Paul J. Callanan, Michael R. Garcia, Jeffrey E. McClintock, Ping Zhao, Ronald A. Remillard, Charles D. Bailyn, Jerome A. Orosz, B. Alan Harmon, & William S. Paciesas.* 441, 786, 72-G3 (1995)

Alphanumeric: GRS 1915+105

The Velocity of the Emitting Plasma of the Superluminal Galactic Source GRS 1915+105. *Gianluigi Bodo & Gabriele Ghisellini.* 441, L69, 75-G13 (1995)

Alphanumeric: GS 1124−683

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

Alphanumeric: GX 339−4

OSSE Observations of GX 339−4. *D. A. Grabelsky, S. M. Matz, W. R. Purcell, M. P. Ulmer, J. E. Grove, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, & G. V. Jung.* 441, 800, 73-A6 (1995)

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

Alphanumeric: HH 34

The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

Alphanumeric: RX J0515.6+0105

RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

Alphanumeric: SR 3

Diffuse Band Profiles in the ρ Ophiuchi Cloud. *C. Gregory Seab & Theodore P. Snow, Jr.* 443, 698, 107-E1 (1995)

STARS: PULSARS: INDIVIDUAL

Alphanumeric: PSR B0042−73

On the Nature of the Binary Radio Pulsar PSR B0042−73 in the Small Magellanic Cloud. *V. M. Lipunov, K. A. Postnov, & M. E. Prokhorov.* 441, 776, 72-F1 (1995)

STARS: INTERIORS

A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

Analysis of the Type Ia Supernova SN 1994D. *P. Höflich.* 443, 89, 96-D9 (1995)

Discrepancies between OPAL and OP Opacities at High Densities and Temperatures. *Carlos A. Iglesias & Forrest J. Rogers.* 443, 460, 101-D6 (1995)

Modeling Solar-like Oscillations in η Bootis. *Jørgen Christensen-Dalsgaard, Timothy R. Bedding, & Hans Kjeldsen.* 443, L29, 102-F1 (1995)

STARS: KINEMATICS

PSR J2019+2425 and PSR J2322+2057 and the Proper Motions of Millisecond Pulsars. *D. J. Nice & J. H. Taylor.* 441, 429, 65-C7 (1995)

Radial Velocities of Stars in the Globular Cluster M4 and the Cluster Distance. *Ruth C. Peterson, Richard F. Rees, & Kyle M. Cudworth.* 443, 124, 96-G11 (1995)

STARS: LATE-TYPE

A Survey of Lithium in the Red Giants of the Magellanic Clouds. *Verne V. Smith, Bertrand Plez, David L. Lambert, & D. A. Lubowich.* 441, 735, 72-A13 (1995)

A Nonlocal Calculation of Circumstellar OH Maser Emission. *Alan J. Collison & Gerald E. Nedoluha.* 442, 311, 81-D6 (1995)

Mg II *h* and *k* Profiles in High-Luminosity, Late-Type Stars. *R. D. Robinson & K. G. Carpenter.* 442, 328, 81-E12 (1995)

Activity Cycles in Cool Stars. I. Observation and Analysis Methods and Case Studies of Four Well-observed Examples. *Jeffrey C. Hall, G. W. Lockwood, & Erika L. Gibb.* 442, 778, 91-A1 (1995)

A Reanalysis of the SWP-HI *IUE* Observations of Capella. *Brian E. Wood & Thomas R. Ayres.* 443, 329, 99-F7 (1995)

STARS: LOW-MASS, BROWN DWARFS

Self-Lensing by a Stellar Disk. *Andrew Gould.* 441, 77, 60-D5 (1995)

The Brown Dwarf Candidate ESO 207−61: Its Distance and Very Low Luminosity. *P. A. Ianna & L. W. Fredrick.* 441, L47, 67-C5 (1995)

Dynamical and Observable Constraints on RAMBOs: Robust Associations of Massive Baryonic Objects. *Ben Moore & Joseph Silk.* 442, L5, 84-D10 (1995)

HST Images of the Eclipsing Pulsar B1957+20. *Andrew S. Fruchter, Jay Bookbinder, & Charles D. Bailyn.* 443, L21, 102-D13 (1995)

STARS: LUMINOSITY FUNCTION, MASS FUNCTION

Measurements of Globular Cluster Specific Frequencies and Luminosity Function Widths in Coma. *John P. Blakeslee & John L. Tonry.* 442, 579, 87-G8 (1995)

White Dwarfs and Mass Segregation in the Core of 47 Tucanae. *Francesco Paresce, Guido De Marchi, & Robert Jedrzejewski.* 442, L57, 94-D12 (1995)

Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

STARS: MAGNETIC FIELDS

Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

Magnetic Activity Variations of ϵ Eridani. *David F. Gray & Sallie L. Baliunas.* 441, 436, 65-D4 (1995)

Surface Temperature of a Magnetized Neutron Star and Interpretation of the *ROSAT* Data. I. Dipolar Fields. *Dany Page.* 442, 273, 81-A1 (1995)

On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

Magnetized Accretion and Spin Evolution in Classical T Tauri Stars. *Insu Yi.* 442, 768, 90-G2 (1995)

Postaccretion Magnetic Field Evolution of Neutron Stars. *E. J. Young & G. Chanmugam.* 442, L53, 94-D3 (1995)

Generation of Mass Loss in K Giants: The Failure of Global Oscillation Modes and Possible Implications. *G. Sutmann & M. Cuntz.* 442, L61, 94-E7 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

STARS: MASS LOSS

Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

A Comparison of Near-Infrared Spectra of the Galactic Center Compact He I Emission-Line Sources and Early-Type Mass-losing Stars. *R. D. Blum, D. L. DePoy, & K. Sellgren.* 441, 603, 70-D7 (1995)

The Homunculus of η Carinae: An Interacting Stellar Winds Paradigm. *Adam Frank, Bruce Balick, & Kris Davidson.* 441, L77, 76-B2 (1995)

Momentum Deposition in Wolf-Rayet Winds: Nonisotropic Diffusion with Effectively Gray Opacity. *Kenneth G. Gayley, Stanley P. Owocki, & Steven R. Cranmer.* 442, 296, 81-C2 (1995)

On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

The Threshold for Stellar Winds in Hot Main-Sequence Stars. *James A. Grigsby & Nancy D. Morrison.* 442, 794, 91-B7 (1995)

Generation of Mass Loss in K Giants: The Failure of Global Oscillation Modes and Possible Implications. *G. Sutmann & M. Cuntz.* 442, L61, 94-E7 (1995)

Powerful Jets and Weak Outflows: HH 1–2 and HH 34. *Lawrence M. Chernin & Colin R. Masson.* 443, 181, 97-E11 (1995)

Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*. *Hollis R. Johnson, Lisa M. Ensman, David R. Alexander, Eugene H. Avrett, Alexander Brown, Kenneth G. Carpenter, Kjell Eriksson, Bengt Gustafsson, Uffe G. Jørgensen, Philip D. Judge, Jeffrey L. Linsky, Donald G. Luttermoser, Francois Querci, Monique Querci, Richard D. Robinson, & Robert F. Wing.* 443, 281, 99-B6 (1995)

Distinction of Parallel Outflows in L1448 through H_2 Excitation. *Christopher J. Davis & Michael D. Smith.* 443, L41, 102-G14 (1995)

STARS: NEUTRON

Phase Lags in Cygnus X-1. *M. Coleman Miller.* 441, 770, 72-E6 (1995)

Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Surface Temperature of a Magnetized Neutron Star and Interpretation of the *ROSAT* Data. I. Dipolar Fields. *Dany Page.* 442, 273, 81-A1 (1995)

The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

Deviations from Chemical Equilibrium Due to Spin-down as an Internal Heat Source in Neutron Stars. *Andreas Reisenegger.* 442, 749, 90-E3 (1995)

Postaccretion Magnetic Field Evolution of Neutron Stars. *E. J. Young & G. Chanmugam.* 442, L53, 94-D3 (1995)

Hydrodynamics of Coalescing Binary Neutron Stars: Ellipsoidal Treatment. *Dong Lai & Stuart L. Shapiro.* 443, 705, 107-E12 (1995)

Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)

STARS: NOVAE, CATACLYSMIC VARIABLES

Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

Cataclysmic and Close Binaries in Star Clusters. II. Probing the Core of NGC 6752 with *Hubble Space Telescope*. *Michael M. Shara, Laurent Drissen, Louis E. Bergeron, & Francesco Paresce.* 441, 617, 70-E10 (1995)

Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results. *A. Vikhlinin, E. Churazov, M. Gilfanov, R. Sunyaev, A. Finoguenov, A. Dyachkov, R. Kremnev, K. Sukhanov, J. Ballet, A. Goldwurm, B. Cordier, A. Claret, M. Denis, J. F. Olive, J. P. Roques, & P. Mandrou.* 441, 779, 72-F7 (1995)

Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence. *Paul J. Callanan, Michael R. Garcia, Jeffrey E. McClintock, Ping Zhao, Ronald A. Remillard, Charles D. Bailyn, Jerome A. Orosz, B. Alan Harmon, & William S. Paciesas.* 441, 786, 72-G3 (1995)

Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

Hubble Space Telescope Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles. *E. L. Robinson, Janet H. Wood, R. C. Bless, J. C. Clemens, J. F. Dolan, J. L. Elliot, M. J. Nelson, J. W. Percival, M. J. Taylor, G. W. van Citters, & E. Zhang.* 443, 295, 99-C9 (1995)

STARS: OSCILLATIONS

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

Generation of Mass Loss in K Giants: The Failure of Global Oscillation Modes and Possible Implications. *G. Sutmann & M. Cuntz.* 442, L61, 94-E7 (1995)

Nightly Variations of Nonradial Oscillations in the Delta Scuti Star v Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

Modeling Solar-like Oscillations in η Bootis. *Jørgen Christensen-Dalsgaard, Timothy R. Bedding, & Hans Kjeldsen.* 443, L29, 102-F1 (1995)

STARS: POPULATION II

The Sodium/Aluminum–Oxygen Anticorrelation in ω Centauri and Other Clusters. *John E. Norris & G. S. Da Costa.* 441, L81, 76-B11 (1995)

STARS: PRE–MAIN-SEQUENCE

A Search for Pre–Main-Sequence Stars in High-Latitude Molecular Clouds. III. A Survey of the *Einstein* Database. *Jean-Pierre Caillault, Loris Magnani, & Chris Fryer.* 441, 261, 62-G12 (1995)

H I, CO, and *IRAS* Observations of NGC 7023. *C. Rogers, Mark H. Heyer, & P. E. Dewdney.* 442, 694, 89-F10 (1995)

Magnetized Accretion and Spin Evolution in Classical T Tauri Stars. *Insu Yi.* 442, 768, 90-G2 (1995)

Powerful Jets and Weak Outflows: HH 1–2 and HH 34. *Lawrence M. Chernin & Colin R. Masson.* 443, 181, 97-E11 (1995)

A Lunar Occultation and Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star-forming Regions. *M. Simon, A. M. Ghez, Ch. Leinert, L. Cassar, W. P. Chen, R. R. Howell, R. F. Jameson, K. Matthews, G. Neugebauer, & A. Richichi.* 443, 625, 106-E1 (1995)

The Molecular Environment of the HH 34 System. *G. Anglada, R. Estalella, R. Mauersberger, J. M. Torrelles, L. F. Rodríguez, J. Cantó, P. T. P. Ho, & P. D'Alessio.* 443, 682, 107-C9 (1995)

STARS: PULSARS: GENERAL

H I Line Measurements of Eight Southern Pulsars. *Bärbel Koribalski, Simon Johnston, J. M. Weisberg, & W. Wilson.* 441, 756, 72-C13 (1995)

On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

Surface Temperature of a Magnetized Neutron Star and Interpretation of the *ROSAT* Data. I. Dipolar Fields. *Dany Page.* 442, 273, 81-A1 (1995)

The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

Deviations from Chemical Equilibrium Due to Spin-down as an Internal Heat Source in Neutron Stars. *Andreas Reisenegger.* 442, 749, 90-E3 (1995)

Postaccretion Magnetic Field Evolution of Neutron Stars. *E. J. Young & G. Chanmugam.* 442, L53, 94-D3 (1995)

Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

Temporal Variation of Pulsar Dispersion Measure. *Xinji Wu & Abraham C.-L. Chian.* 443, 261, 98-G1 (1995)

Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo. *Paul S. Ray, W. T. S. Deich, S. R. Kulkarni, Thomas A. Prince, S. E. Thorsett, Gautam Vasisht, A. Wolszczan, Donald C. Backer, John H. Halliman II, & John Middleditch.* 443, 265, 98-G8 (1995)

Long-Term Stability of Pulsed X-Ray Emission from the Crab Pulsar. *Y. Sekimoto, M. Hirayama, T. Kamae, & N. Kawai.* 443, 271, 99-A3 (1995)

A Unified Picture for High-Energy Emission in Spin-powered Pulsars. *T. Kamae & Y. Sekimoto.* 443, 780, 108-E7 (1995)

STARS: PULSARS: INDIVIDUAL

Name: Crab Pulsar

Long-Term Stability of Pulsed X-Ray Emission from the Crab Pulsar. *Y. Sekimoto, M. Hirayama, T. Kamae, & N. Kawai.* 443, 271, 99-A3 (1995)

Name: Geminga

On the Nature of the Unidentified EGRET Sources: Are They Geminga-like Pulsars? *R. Mukherjee, D. L. Bertsch, B. L. Dingus, G. Kanbach, D. A. Kniffen, P. Sreekumar, & D. J. Thompson.* 441, L61, 75-F13 (1995)

Alphanumeric: PSR 1259−63

X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

Alphanumeric: PSR B1259−63

Polarization Properties of Two Pulsars. *R. N. Manchester & Simon Johnston.* 441, L65, 75-G6 (1995)

Alphanumeric: PSR B1957+20

HST Images of the Eclipsing Pulsar B1957+20. *Andrew S. Fruchter, Jay Bookbinder, & Charles D. Bailyn.* 443, L21, 102-D13 (1995)

Alphanumeric: PSR J0437−4715

Polarization Properties of Two Pulsars. *R. N. Manchester & Simon Johnston.* 441, L65, 75-G6 (1995)

Alphanumeric: PSR J2019+2425

PSR J2019+2425 and PSR J2322+2057 and the Proper Motions of Millisecond Pulsars. *D. J. Nice & J. H. Taylor.* 441, 429, 65-C7 (1995)

Alphanumeric: PSR J2322+2057

PSR J2019+2425 and PSR J2322+2057 and the Proper Motions of Millisecond Pulsars. *D. J. Nice & J. H. Taylor.* 441, 429, 65-C7 (1995)

STARS: ROTATION

Can the Variability of Solar-like Spotted Stars be Detected Polarimetrically? *Geoffrey K. Fox.* 441, 408, 65-A1 (1995)

Detection of the Hot White Dwarf in the Magnetic Nova V1500 Cygni with the *Hubble Space Telescope*. *Gary D. Schmidt, James Liebert, & H. S. Stockman.* 441, 414, 65-A11 (1995)

Stellar Models with Microscopic Diffusion and Rotational Mixing. II. Application to Open Clusters. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 876, 74-A13 (1995)

The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

Magnetized Accretion and Spin Evolution in Classical T Tauri Stars. *Insu Yi.* 442, 768, 90-G2 (1995)

Activity Cycles in Cool Stars. I. Observation and Analysis Methods and Case Studies of Four Well-observed Examples. *Jeffrey C. Hall, G. W. Lockwood, & Erika L. Gibb.* 442, 778, 91-A1 (1995)

Magnetic Moments and Angular Momenta of Stars and Planets. *C. N. Arge, D. J. Mullan, & A. Z. Dolginov.* 443, 795, 108-G1 (1995)

STARS: STATISTICS

Star Counts from the *HST* Snapshot Survey. II. Wide Binaries. *Andrew Gould, John N. Bahcall, Dan Maoz, & Brian Yanny.* 441, 200, 62-B4 (1995)

Magnitude Offset between Lensed Stars and Observed Stars: A New Probe of the Structure of the Galactic Bar. *K. Z. Stanek.* 441, L29, 66-G3 (1995)

Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo. *Paul S. Ray, W. T. S. Deich, S. R. Kulkarni, Thomas A. Prince, S. E. Thorsett, Gautam Vasisht, A. Wolszczan, Donald C. Backer, John H. Halliman II, & John Middleditch.* 443, 265, 98-G8 (1995)

STARS: SUPERGIANTS

Intense Radio Outburst from the Supermassive Star η Carinae. *R. A. Duncan, S. M. White, J. Lim, G. J. Nelson, S. A. Drake, & M. R. Kundu.* 441, L73, 76-A6 (1995)

Mg II h and k Profiles in High-Luminosity, Late-Type Stars. *R. D. Robinson & K. G. Carpenter.* 442, 328, 81-E12 (1995)

On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. *R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, & S. T. Suess.* 442, L25, 84-G11 (1995)

STARS: SUPERNOVAE: GENERAL

Gravitational Radiation from Rapidly Rotating Nascent Neutron Stars. *Dong Lai & Stuart L. Shapiro.* 442, 259, 80-F11 (1995)

Computing Supernova Collapse to Neutron Stars and Black Holes. *Thomas W. Baumgarte, Stuart L. Shapiro, & Saul A. Teukolsky.* 443, 717, 107-F13 (1995)

The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

STARS: SUPERNOVAE: INDIVIDUAL

Alphanumeric: SN 1968D

The Radio Detection of SN 1968D in NGC 6946. *Scott D. Hyman, Schuyler D. Van Dyk, Kurt W. Weiler, & Richard A. Sramek.* 443, L77, 112-A2 (1995)

Alphanumeric: SN 1981B

Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

Alphanumeric: SN 1987A

The He I Emission Lines of SN 1987A. *Hongwei Li & Richard McCray.* 441, 821, 73-C6 (1995)

Alphanumeric: SN 1992A

Spectrum Synthesis of the Type Ia Supernovae SN 1992A and SN 1981B. *Peter Nugent, E. Baron, Peter H. Hauschildt, & David Branch.* 441, L33, 67-A1 (1995)

Alphanumeric: SN 1993J

Non-LTE Spectral Analysis and Model Constraints on SN 1993J. *E. Baron, P. H. Hauschildt, D. Branch, S. Austin, P. Garnavich, Hong Bae Ann, R. M. Wagner, A. V. Filippenko, T. Matheson, & James Liebert.* 441, 170, 61-F8 (1995)

Alphanumeric: SN 1994D

Analysis of the Type Ia Supernova SN 1994D. *P. Höflich.* 443, 89, 96-D9 (1995)

STARS: VARIABLES: δ SCUTI

Nightly Variations of Nonradial Oscillations in the Delta Scuti Star υ Ursae Majoris. *S. G. Korzennik, R. W. Noyes, T. Brown, P. Nisenson, & S. Horner.* 443, L25, 102-E7 (1995)

STARS: VARIABLES: OTHER

AM Herculis

RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

RR Lyrae

The RR Lyrae Fundamental Red Edge. *G. Bono, F. Caputo, V. Castellani, M. Marconi, L. Staiano, & R. F. Stellingwerf.* 442, 159, 79-D1 (1995)

STARS: WHITE DWARFS

BE Ursae Majoris: Precataclysmic Binary System and Planetary Nucleus. *James Liebert, R. W. Tweedy, R. Napiwotzki, & M. S. Fulbright.* 441, 424, 65-B11 (1995)

A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

Spectroscopic Studies of DB White Dwarfs: Confirmation and Modeling of New Forbidden Components of He I. *A. Beauchamp, F. Wesemael, P. Bergeron, & James Liebert.* 441, L85, 76-C4 (1995)

Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

Magnetic Field Evolution in White Dwarfs: The Hall Effect and Complexity of the Field. *A. G. Muslimov, H. M. Van Horn, & M. A. Wood.* 442, 758, 90-F2 (1995)

On the Nature of the Spectral Features in Peculiar "DQ" White Dwarfs. *Gary D. Schmidt, P. Bergeron, & Bruce Fegley, Jr.* 443, 274, 99-A10 (1995)

Temperatures, Gravities, and Masses for a Sample of Bright DA White Dwarfs and the Initial-to-Final Mass Relation. *Angela Bragaglia, Alvio Renzini, & P. Bergeron.* 443, 735, 108-A7 (1995)

The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

New Model Atmospheres for Very Cool White Dwarfs with Mixed H/He and Pure He Compositions. *P. Bergeron, D. Saumon, & F. Wesemael.* 443, 764, 108-D1 (1995)

STARS: WOLF-RAYET

Time-dependent Behavior and Physical Conditions of the LMC Planetary Nebula N66. *M. Peña, M. Peimbert, S. Torres-Peimbert, M. T. Ruiz, & J. Maza.* 441, 343, 64-B1 (1995)

Momentum Deposition in Wolf-Rayet Winds: Nonisotropic Diffusion with Effectively Gray Opacity. *Kenneth G. Gayley, Stanley P. Owocki, & Steven R. Cranmer.* 442, 296, 81-C2 (1995)

STARS: X-RAYS

Surface Temperature of a Magnetized Neutron Star and Interpretation of the *ROSAT* Data. I. Dipolar Fields. *Dany Page.* 442, 273, 81-A1 (1995)

SUN: ABUNDANCES

Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

The ^{3}He/^{4}He Ratios for Solar Energetic Particle Events during the *Combined Release and Radiation Effects Satellite* Mission. *Jiasheng Chen, T. Gregory Guzik, & John P. Wefel.* 442, 875, 92-C1 (1995)

SUN: ACTIVITY

A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

The Simulation of Complete 11 and 22 Year Modulation Cycles for Cosmic Rays in the Heliosphere Using a Drift Model with Global Merged Interaction Regions. *J. A. le Roux & M. S. Potgieter.* 442, 847, 91-G3 (1995)

An Estimate of the Location of the Modulation Boundary for $E > 70$ MeV Galactic Cosmic Rays Using *Voyager* and *Pioneer* Spacecraft Data. *J. A. Lockwood & W. R. Webber.* 442, 852, 91-G12 (1995)

Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SUN: ATMOSPHERE

A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

SUN: CHROMOSPHERE

The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

Heating of the Solar Middle Chromosphere by Large-Scale Electric Currents. *Michael L. Goodman.* 443, 450, 101-C7 (1995)

Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SUN: CORONA

Gravity Waves in the Lower Solar Corona. *Yu-Qing Lou.* 442, 401, 82-E1 (1995)

Stellar Coronal Abundances. III. The Solar First Ionization Potential Effect Determined from Full-Disk Observation. *J. Martin Laming, Jeremy J. Drake, & Kenneth G. Widing.* 443, 416, 100-G2 (1995)

Shear-induced Opening of the Coronal Magnetic Field. *Richard Wolfson.* 443, 810, 109-A11 (1995)

Magnetostatic Structures of the Solar Corona. II. The Magnetic Topology of Quiescent Prominences. *B. C. Low & J. R. Hundhausen.* 443, 818, 109-B9 (1995)

Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SUN: FLARES

Imaging Spectropolarimetry of the He I 1083 Nanometer Line in a Flaring Solar Active Region. *M. J. Penn & J. R. Kuhn.* 441, L51, 67-D1 (1995)

A Solar Flare Triggering Mechanism Based on the Woltjer-Taylor Minimum Energy Principle. *K. Kusano, Y. Suzuki, & K. Nishikawa.* 441, 942, 74-G9 (1995)

Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

The ^{3}He/^{4}He Ratios for Solar Energetic Particle Events during the *Combined Release and Radiation Effects Satellite* Mission. *Jiasheng Chen, T. Gregory Guzik, & John P. Wefel.* 442, 875, 92-C1 (1995)

Directivity and Its Energy Dependence in Solar Flare Energetic Emission. *Peng Li.* 443, 855, 109-F1 (1995)

SUN: GRANULATION

A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

Kinematic Models of Supergranular Diffusion on the Sun. *G. W. Simon, A. M. Title, & N. O. Weiss.* 442, 886, 92-D2 (1995)

Oscillation-Convection Coupling: Cause of Supergranulation? *Charles L. Wolff.* 443, 423, 100-G12 (1995)

On the Nature of "Exploding" Granules and Granule Fragmentation. *Mark Peter Rast.* 443, 863, 109-F12 (1995)

SUN: INFRARED

Imaging Spectropolarimetry of the He I 1083 Nanometer Line in a Flaring Solar Active Region. *M. J. Penn & J. R. Kuhn.* 441, L51, 67-D1 (1995)

SUN: INTERIOR

Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

Magnetoconvection Dynamics in a Stratified Layer. II. A Low-Order Model of the Tilting Instability. *Steven R. Lantz.* 441, 925, 74-F2 (1995)

Theoretical Properties of Ω-Loops in the Convective Zone of the Sun. III. Extended Updrafts. *E. N. Parker.* 442, 405, 82-E8 (1995)

Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

Helioseismic Bounds on the Central Temperature of the Sun. *H. M. Antia & S. M. Chitre.* 442, 434, 83-A2 (1995)

Oscillation-Convection Coupling: Cause of Supergranulation? *Charles L. Wolff.* 443, 423, 100-G12 (1995)

Discrepancies between OPAL and OP Opacities at High Densities and Temperatures. *Carlos A. Iglesias & Forrest J. Rogers.* 443, 460, 101-D6 (1995)

SUN: MAGNETIC FIELDS

Imaging Spectropolarimetry of the He I 1083 Nanometer Line in a Flaring Solar Active Region. *M. J. Penn & J. R. Kuhn.* 441, L51, 67-D1 (1995)

Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

Magnetoconvection Dynamics in a Stratified Layer. II. A Low-Order Model of the Tilting Instability. *Steven R. Lantz.* 441, 925, 74-F2 (1995)

A Solar Flare Triggering Mechanism Based on the Woltjer-Taylor Minimum Energy Principle. *K. Kusano, Y. Suzuki, & K. Nishikawa.* 441, 942, 74-G9 (1995)

On the Spatial Distribution of Magnetic Fields on the Solar Surface. *L. Tao, Y. Du, R. Rosner, & F. Cattaneo.* 443, 434, 101-A12 (1995)

Brunt-Väisälä Growth Rate and the Radial Emergence of Equipartition Fields. *Sydney D'Silva.* 443, 444, 101-B11 (1995)

Asymptotic Analysis of Force-free Magnetic Fields of Cylindrical Symmetry. *P. A. Sturrock, S. K. Antiochos, & G. Roumeliotis.* 443, 804, 109-A1 (1995)

Shear-induced Opening of the Coronal Magnetic Field. *Richard Wolfson.* 443, 810, 109-A11 (1995)

SUN: OSCILLATIONS

A Measurement of the Background Solar Velocity Spectrum. *P. L. Pallé, A. Jiménez, F. Pérez Hernández, C. Régulo, T. Roca Cortés, & L. Sánchez.* 441, 952, 75-A9 (1995)

Helioseismic Bounds on the Central Temperature of the Sun. *H. M. Antia & S. M. Chitre.* 442, 434, 83-A2 (1995)

Oscillation-Convection Coupling: Cause of Supergranulation? *Charles L. Wolff.* 443, 423, 100-G12 (1995)

Measurement of High-Degree Solar Oscillation Frequencies. *K. T. Bachmann, T. L. Duvall, Jr., J. W. Harvey, & F. Hill.* 443, 837, 109-D3 (1995)

Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

SUN: PARTICLE EMISSION

Effect of Adiabatic Deceleration on the Focused Transport of Solar Cosmic Rays. *D. Ruffolo.* 442, 861, 92-A12 (1995)

The ^{3}He/^{4}He Ratios for Solar Energetic Particle Events during the *Combined Release and Radiation Effects Satellite* Mission. *Jiasheng Chen, T. Gregory Guzik, & John P. Wefel.* 442, 875, 92-C1 (1995)

Shear-induced Opening of the Coronal Magnetic Field. *Richard Wolfson.* 443, 810, 109-A11 (1995)

SUN: PROMINENCES

Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

Magnetostatic Structures of the Solar Corona. II. The Magnetic Topology of Quiescent Prominences. *B. C. Low & J. R. Hundhausen.* 443, 818, 109-B9 (1995)

SUN: ROTATION

Stellar Models with Microscopic Diffusion and Rotational Mixing. I. Application to the Sun. *Brian Chaboyer, P. Demarque, & M. H. Pinsonneault.* 441, 865, 73-G13 (1995)

Uncertainties for Two-dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting. *Christopher R. Genovese, Philip B. Stark, & Michael J. Thompson.* 443, 843, 109-D13 (1995)

SUN: SOLAR WIND

Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

Effect of Adiabatic Deceleration on the Focused Transport of Solar Cosmic Rays. *D. Ruffolo.* 442, 861, 92-A12 (1995)

Charge State of Anomalous Cosmic-Ray Nitrogen, Oxygen, and Neon: *SAMPEX* Observations. *B. Klecker, M. C. McNab, J. B. Blake, D. C. Hamilton, D. Hovestadt, H. Kästle, M. D. Looper, G. M. Mason, J. E. Mazur, & M. Scholer.* 442, L69, 94-F9 (1995)

SUN: SUNSPOTS

Brunt-Väisälä Growth Rate and the Radial Emergence of Equipartition Fields. *Sydney D'Silva.* 443, 444, 101-B11 (1995)

SUN: TRANSITION REGION

Gravity Waves in the Lower Solar Corona. *Yu-Qing Lou.* 442, 401, 82-E1 (1995)

Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SUN: UV RADIATION

Abundance Ratios of Oxygen, Neon, and Magnesium in Solar Active Regions and Flares: The FIP Effect. *K. G. Widing & U. Feldman.* 442, 446, 83-B3 (1995)

The Solar Lyα Line Profile. *Thomas N. Woods, Gary J. Rottman, O. R. White, Juan Fontenla, & E. H. Avrett.* 442, 898, 92-E4 (1995)

Stellar Coronal Abundances. III. The Solar First Ionization Potential Effect Determined from Full-Disk Observation. *J. Martin Laming, Jeremy J. Drake, & Kenneth G. Widing.* 443, 416, 100-G2 (1995)

Ultraviolet Observations of the Structure and Dynamics of an Active Region at the Limb. *C. M. Korendyke, K. P. Dere, D. G. Socker, G. E. Brueckner, & B. Schmieder.* 443, 869, 109-G10 (1995)

SUN: X-RAYS, GAMMA RAYS

Directivity and Its Energy Dependence in Solar Flare Energetic Emission. *Peng Li.* 443, 855, 109-F1 (1995)

SURVEYS

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

The Stromlo-APM Redshift Survey. II. Variation of Galaxy Clustering with Morphology and Luminosity. *J. Loveday, S. J. Maddox, G. Efstathiou, & B. A. Peterson.* 442, 457, 86-C1 (1995)

Much Ado about Nothing: Several Large-Area Surveys for Radio Pulsars from Arecibo. *Paul S. Ray, W. T. S. Deich, S. R. Kulkarni, Thomas A. Prince, S. E. Thorsett, Gautam Vasisht, A. Wolszczan, Donald C. Backer, John H. Holliman II, & John Middleditch.* 443, 265, 98-G8 (1995)

TECHNIQUES: IMAGE PROCESSING

Adaptive Optics Imaging of Proto–Planetary Nebulae: Frosty Leo and the Red Rectangle. *F. Roddier, C. Roddier, J. E. Graves, & M. J. Northcott.* 443, 249, 98-E7 (1995)

TECHNIQUES: INTERFEROMETRIC

The Deceleration Powering of Synchrotron Emission from Ejecta Components of Supernova Remnant Cassiopeia A. *M. C. Anderson & L. Rudnick.* 441, 307, 63-E9 (1995)

Fabry-Perot Imaging of O III λ = 5007 Å Emission in the Io Plasma Torus. *M. Küppers & K. Jockers.* 441, L101, 76-E4 (1995)

The Parsec-Scale Jet in Quasar 3C 345. *J. Anton Zensus, Marshall H. Cohen, & Stephen C. Unwin.* 443, 35, 95-F9 (1995)

TECHNIQUES: RADIAL VELOCITIES

Radial Velocities of Stars in the Globular Cluster M4 and the Cluster Distance. *Ruth C. Peterson, Richard F. Rees, & Kyle M. Cudworth.* 443, 124, 96-G11 (1995)

Planetary Nebulae as Probes of Dark Matter in NGC 3384. *Benoit Tremblay, David Merritt, & T. B. Williams.* 443, L5, 102-B8 (1995)

TECHNIQUES: SPECTROSCOPIC

Measurement of the $^{16}O(n, \gamma)^{17}O$ Reaction Cross Section at Stellar Energy and the Critical Role of Nonresonant *p*-Wave Neutron Capture. *M. Igashira, Y. Nagai, K. Masuda, T. Ohsaki, & H. Kitazawa.* 441, L89, 76-C11 (1995)

TURBULENCE

Propagation of Galactic Cosmic Rays under Diffusive Reacceleration. *U. Heinbach & M. Simon.* 441, 209, 62-C4 (1995)

A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

Large HCO^+ and HCN Abundances in the Translucent Cloud toward PKS 0528+134. *Michiel R. Hogerheijde, Eugène J. de Geus, Marco Spaans, Huib Jan van Langevelde, & Ewine F. van Dishoeck.* 441, L93, 76-D4 (1995)

On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

Modeling of Shallow and Inefficient Convection in the Outer Layers of the Sun Using Realistic Physics. *Yong-Cheol Kim, Peter A. Fox, Sabatino Sofia, & Pierre Demarque.* 442, 422, 82-G1 (1995)

Turbulent Convection in Thin Accretion Disks. *Itzhak Goldman & Amri Wandel.* 443, 187, 97-F6 (1995)

Electron Density Power Spectrum in the Local Interstellar Medium. *J. W. Armstrong, B. J. Rickett, & S. R. Spangler.* 443, 209, 98-A6 (1995)

ULTRAVIOLET: GALAXIES

Radiative Transfer in a Clumpy Universe: The Colors of High-Redshift Galaxies. *Piero Madau.* 441, 18, 59-D13 (1995)

The Gravitational Lens System Q0957+561 in the Ultraviolet. *J. F. Dolan, A. G. Michalitsianos, R. W. Thompson, P. T. Boyd, K. G. Wolinski, R. C. Bless, M. J. Nelson, J. W. Percival, M. J. Taylor, J. L. Elliot, & G. W. van Citters.* 442, 87, 78-D5 (1995)

Ultraviolet Radiation from Evolved Stellar Populations. II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies. *Ben Dorman, Robert W. O'Connell, & Robert T. Rood.* 442, 105, 78-F6 (1995)

The Gaseous Extent of Galaxies and the Origin of Lyman-Alpha Absorption Systems: A Survey of Galaxies in the Fields of *Hubble Space Telescope* Spectroscopic Target QSOs. *Kenneth M. Lanzetta, David V. Bowen, David Tytler, & John K. Webb.* 442, 538, 87-D1 (1995)

Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey. *A. Treves, H. H. Fink, M. Malkan, S. J. Wagner, B. J. Wilkes, F. Baganoff, J. Heidt, E. Pian, A. Sadun, S. Schaeidt, J. T. Bonnell, W. Brinkmann, D. de Martino, L. Maraschi, E. G. Tanzi, M. H. Ulrich, & W. Wamsteker.* 442, 589, 88-A9 (1995)

The Evolution of C/O in Dwarf Galaxies from *Hubble Space Telescope* FOS Observations. *Donald R. Garnett, Evan D. Skillman, Reginald J. Dufour, Manuel Peimbert, Silvia Torres-Peimbert, Roberto Terlevich, Elena Terlevich, & Gregory A. Shields.* 443, 64, 96-B6 (1995)

The Heating of Dust in Starburst Galaxies: The Contribution of the Nonionizing Radiation. *Daniela Calzetti, Ralph C. Bohlin, Anne L. Kinney, Thaisa Storchi-Bergmann, & Timothy M. Heckman.* 443, 136, 97-A12 (1995)

Ne VIII λ774 and Time Variable Associated Absorption in the QSO UM 675. *Fred Hamann, Thomas A. Barlow, E. A. Beaver, E. M. Burbidge, Ross D. Cohen, Vesa Junkkarinen, & R. Lyons.* 443, 606, 106-C1 (1995)

ULTRAVIOLET: GENERAL

The Circumstellar Nature of the Metallic Features in a Hot DA White Dwarf. *J. B. Holberg, F. C. Bruhweiler, & J. Andersen.* 443, 753, 108-C1 (1995)

ULTRAVIOLET: ISM

First Spectral Observations of the Diffuse Background with the *Extreme Ultraviolet Explorer*. *P. Jelinsky, J. V. Vallerga, & J. Edelstein.* 442, 653, 89-A8 (1995)

Discovery and Imaging of a Galactic Cirrus Cloud with the Far Ultraviolet Space Telescope. *Lauri K. Haikala, Kalevi Mattila, Stuart Bowyer, Timothy P. Sasseen, Michael Lampton, & Jens Knude.* 443, L33, 102-F8 (1995)

Ultraviolet Extinction to 10.8 Inverse Microns. *Per A. Aannestad.* 443, 653, 106-G11 (1995)

Interstellar Graphitic Particles Generated by Annealing of Nanodiamonds and Their Relation to the 2175 Å Peak Carrier. *Daniel Ugarte.* 443, L85, 112-B4 (1995)

ULTRAVIOLET: STARS

A Volume-limited Survey of High Galactic Latitude Planetary Nebulae with the *Extreme Ultraviolet Explorer*. *Antonella Fruscione, Jeremy J. Drake, Kelley McDonald, & Roger F. Malina.* 441, 726, 72-A1 (1995)

Mg II *h* and *k* Profiles in High-Luminosity, Late-Type Stars. *R. D. Robinson & K. G. Carpenter.* 442, 328, 81-E12 (1995)

The Active Phase of the Hot Component of Z Andromedae. *T. Fernández-Castro, R. González-Riestra, A. Cassatella, A. R. Taylor, & E. R. Seaquist.* 442, 366, 82-B4 (1995)

The Transition Regions of Capella. *Jeffrey L. Linsky, Brian E. Wood, Philip Judge, Alexander Brown, Catherine Andrulis, & Thomas R. Ayres.* 442, 381, 82-C9 (1995)

The Threshold for Stellar Winds in Hot Main-Sequence Stars. *James A. Grigsby & Nancy D. Morrison.* 442, 794, 91-B7 (1995)

White Dwarfs and Mass Segregation in the Core of 47 Tucanae. *Francesco Paresce, Guido De Marchi, & Robert Jedrzejewski.* 442, L57, 94-D12 (1995)

Recent Changes in the *IUE* Spectrum of the Very Young Planetary Nebula He 3-1357 (=SAO 244567). *Walter A. Feibelman.* 443, 245, 98-D13 (1995)

Outer Layers of a Carbon Star: The View from the *Hubble Space Telescope*. *Hollis R. Johnson, Lisa M. Ensman, David R. Alexander, Eugene H. Avrett, Alexander Brown, Kenneth G. Carpenter, Kjell Eriksson, Bengt Gustafsson, Uffe G. Jørgensen, Philip D. Judge, Jeffrey L. Linsky, Donald G. Luttermoser, Francois Querci, Monique Querci, Richard D. Robinson, & Robert F. Wing.* 443, 281, 99-B6 (1995)

Hubble Space Telescope Observations of the Dwarf Nova Z Chamaeleontis through Two Eruption Cycles. *E. L. Robinson, Janet H. Wood, R. C.*

Bless, J. C. Clemens, J. F. Dolan, J. L. Elliot, M. J. Nelson, J. W. Percival, M. J. Taylor, G. W. van Citters, & E. Zhang. 443, 295, 99-C9 (1995)

A Reanalysis of the SWP-HI *IUE* Observations of Capella. *Brian E. Wood & Thomas R. Ayres.* 443, 329, 99-F7 (1995)

Stellar Coronal Abundances. II. The First Ionization Potential Effect and Its Absence in the Corona of Procyon. *Jeremy J. Drake, J. Martin Laming, & Kenneth G. Widing.* 443, 393, 100-E2 (1995)

VIDEOTAPES

Simulation of the Instability of Mach 2 and Mach 4 Gaseous Jets in Two and Three Dimensions. *Gene M. Bassett & Paul R. Woodward.* 441, 582, 70-B1 (1995)

A Turbulent Model for the Interstellar Medium. I. Threshold Star Formation and Self-Gravity. *Enrique Vázquez-Semadeni, Thierry Passot, & Annick Pouquet.* 441, 702, 71-F1 (1995)

Theoretical Overview and Modeling of the Sodium and Potassium Atmospheres of Mercury. *William H. Smyth & M. L. Marconi.* 441, 839, 73-E12 (1995)

Emerging Flux Tubes in the Solar Convection Zone. I. Asymmetry, Tilt, and Emergence Latitude. *P. Caligari, F. Moreno-Insertis, & M. Schüssler.* 441, 886, 74-B12 (1995)

Magnetoconvection Dynamics in a Stratified Layer. I. Two-dimensional Simulations and Visualization. *Steven R. Lantz & R. N. Sudan.* 441, 903, 74-D4 (1995)

Magnetoconvection Dynamics in a Stratified Layer. II. A Low-Order Model of the Tilting Instability. *Steven R. Lantz.* 441, 925, 74-F2 (1995)

WAVES

On Magnetic Turbulence in Interstellar Clouds. *P. C. Myers & V. K. Khersonsky.* 442, 186, 79-F9 (1995)

Gravity Waves in the Lower Solar Corona. *Yu-Qing Lou.* 442, 401, 82-E1 (1995)

Contact and Pressure Balance Structures in Two-Fluid Cosmic-Ray Hydrodynamics. *G. M. Webb, M. Brio, G. P. Zank, & T. Story.* 442, 822, 91-E2 (1995)

X-RAYS: BINARIES

OSSE Observations of GX 339−4. *D. A. Grabelsky, S. M. Matz, W. R. Purcell, M. P. Ulmer, J. E. Grove, W. N. Johnson, R. L. Kinzer, J. D. Kurfess, M. S. Strickman, & G. V. Jung.* 441, 800, 73-A6 (1995)

X-RAYS: BURSTS

Detection of the A1742−294 X-Ray Burster above 35 keV. *E. Churazov, M. Gilfanov, R. Sunyaev, B. Novickov, I. Chulkov, V. Kovtunenko, A. Sheikhet, K. Sukhanov, A. Goldwurm, B. Cordier, J. Paul, P. O. Petrucci, E. Jourdain, J. P. Roques, L. Bouchet, & P. Mandrou.* 443, 341, 99-G8 (1995)

X-RAYS: GALAXIES

ROSAT PSPC Observations of the Early-Type Galaxies NGC 507 and NGC 499: Central Cooling and Mass Determination. *Dong-Woo Kim & G. Fabbiano.* 441, 182, 61-G10 (1995)

The Interaction between Hot and Cold Gas in Early-Type Galaxies. *Joel N. Bregman, David E. Hogg, & Morton S. Roberts.* 441, 561, 69-F9 (1995)

High-Resolution X-Ray Imaging of M33. *Eric Schulman & Joel N. Bregman.* 441, 568, 69-G6 (1995)

A Multiparametric Analysis of the *Einstein* Sample of Early-Type Galaxies. II. Galaxy Formation History and Properties of the Interstellar Medium. *Paul B. Eskridge, Giuseppina Fabbiano, & Dong-Woo Kim.* 442, 523, 87-B8 (1995)

Multifrequency Observations of Kaz 102 during the *ROSAT* All-Sky Survey. *A. Treves, H. H. Fink, M. Malkan, S. J. Wagner, B. J. Wilkes, F. Baganoff, J. Heidt, E. Pian, A. Sadun, S. Schaeidt, J. T. Bonnell, W. Brinkmann, D. de Martino, L. Maraschi, E. G. Tanzi, M. H. Ulrich, & W. Wamsteker.* 442, 589, 88-A9 (1995)

The Origin of the Soft X-Ray Excess in the Seyfert 2 Galaxy NGC 2110. *K. A. Weaver, R. F. Mushotzky, P. J. Serlemitsos, A. S. Wilson, M. Elvis, & U. Briel.* 442, 597, 88-B7 (1995)

ROSAT Observations of the Two Radio-selected Blazars PKS 1034−293 and PKS 1335−127. *L. Maraschi, A. Ciapi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 29, 95-E13 (1995)

An X-Ray Temperature Map of Abell 754: A Major Merger. *J. Patrick Henry & Ulrich G. Briel.* 443, L9, 102-C1 (1995)

ROSAT Observations of Compact Groups of Galaxies. *Rachel A. Pildis, Joel N. Bregman, & August E. Evrard.* 443, 514, 105-A1 (1995)

ROSAT Observations of Blazars from a Polarized Radio-selected Sample. *L. Maraschi, G. Fossati, G. Tagliaferri, & A. Treves.* 443, 578, 105-G4 (1995)

X-RAYS: GENERAL

Images of HCO^+ (1–0) Emission in a Molecular Cloud near 1E 1740.7−2942. *J. A. Phillips & T. Joseph W. Lazio.* 442, L37, 85-B7 (1995)

The Nuclear X-Ray Source in NGC 3628: A Strange Active Galactic Nucleus or the Most Luminous High-Mass X-Ray Binary Known? *Michael Dahlem, Timothy M. Heckman, & Giuseppina Fabbiano.* 442, L49, 94-C9 (1995)

X-RAYS: ISM

Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant. *O. Vancura, P. Gorenstein, & John P. Hughes.* 441, 680, 71-D1 (1995)

ROSAT Observations of the Supernova Remnant 3C 400.2. *Jon M. Saken, Knox S. Long, William P. Blair, & P. Frank Winkler.* 443, 231, 98-C6 (1995)

High-Resolution Measurements of the Kα Spectra of Low-Ionization Species of Iron: A New Spectral Signature of Nonequilibrium Ionization Conditions in Young Supernova Remnants. *V. Decaux, P. Beiersdorfer, A. Osterheld, M. Chen, & S. M. Kahn.* 443, 464, 101-D13 (1995)

X-RAYS: STARS

A Search for Pre–Main-Sequence Stars in High-Latitude Molecular Clouds. III. A Survey of the *Einstein* Database. *Jean-Pierre Caillault, Loris Magnani, & Chris Fryer.* 441, 261, 62-G12 (1995)

X-Ray Emission from the PSR B1259−63 System near Apastron. *J. Greiner, M. Tavani, & T. Belloni.* 441, L43, 67-B9 (1995)

Hard X-Ray Variability of X-Ray Nova Persei 1992: *Granat*/SIGMA Results. *A. Vikhlinin, E. Churazov, M. Gilfanov, R. Sunyaev, A. Finoguenov, A. Dyachkov, R. Kremnev, K. Sukhanov, J. Ballet, A. Goldwurm, B. Cordier, A. Claret, M. Denis, J. F. Olive, J. P. Roques, & P. Mandrou.* 441, 779, 72-F7 (1995)

Observations of the X-Ray Nova GRO J0422+32. I. Outburst and the Decay to Quiescence. *Paul J. Callanan, Michael R. Garcia, Jeffrey E. McClintock, Ping Zhao, Ronald A. Remillard, Charles D. Bailyn, Jerome A. Orosz, B. Alan Harmon, & William S. Paciesas.* 441, 786, 72-G3 (1995)

Accretion Disk Boundary Layers in Cataclysmic Variables. I. Optically Thick Boundary Layers. *Robert Popham & Ramesh Narayan.* 442, 337, 81-F10 (1995)

The Dim Inner Accretion Disk of the Quiescent Black Hole A0620−00. *Jeffrey E. McClintock, Keith Horne, & Ronald A. Remillard.* 442, 358, 82-A6 (1995)

Large Hysteretic Behavior of Stellar Black Hole Candidate X-Ray Binaries. *Sigenori Miyamoto, Shunji Kitamoto, Kiyoshi Hayashida, & Wataru Egoshi.* 442, L13, 84-F1 (1995)

The Very Low Mass X-Ray Binary Pulsars: A New Class of Sources? *S. Mereghetti & L. Stella.* 442, L17, 84-F9 (1995)

Discovery of a Transient MeV Range Gamma-Ray Source. *M. S. Briggs, D. E. Gruber, J. L. Matteson, & L. E. Peterson.* 442, 638, 88-F9 (1995)

RX J0515.6+0105: An Unusual, Eclipsing, Magnetic Cataclysmic Variable. *A. W. Shafter, K. Reinsch, K. Beuermann, K. A. Misselt, D. A. H. Buckley, V. Burwitz, & A. D. Schwope.* 443, 319, 99-E8 (1995)

Detection of the A1742−294 X-Ray Burster above 35 keV. *E. Churazov, M. Gilfanov, R. Sunyaev, B. Novickov, I. Chulkov, V. Kovtunenko, A. Sheikhet, K. Sukhanov, A. Goldwurm, B. Cordier, J. Paul, P. O. Petrucci, E. Jourdain, J. P. Roques, L. Bouchet, & P. Mandrou.* 443, 341, 99-G8 (1995)

A Unified Picture for High-Energy Emission in Spin-powered Pulsars. *T. Kamae & Y. Sekimoto.* 443, 780, 108-E7 (1995)

The Spectrum and Pulses of 1E 2259+586 from *ASCA* and BBXRT Observations. *R. H. D. Corbet, A. P. Smale, M. Ozaki, K. Koyama, & K. Iwasawa.* 443, 786, 108-F3 (1995)